

Locked Case


CLASS LD2206 Book B9
V. 58-59

THE LIBRARY
OF
HAVERFORD COLLEGE

THE GIFT OF

HAVERFORD COLLEGE

ACCESSION NO. 222664



Digitized by the Internet Archive
in 2011 with funding from
LYRASIS Members and Sloan Foundation

OCT 5 1961

HAVERFORD, PA.

HAVERFORD COLLEGE BULLETIN



Catalog, 1959-60

VOLUME LVIII

NUMBER ONE

July, 1959

Locked Case

LD 2206

B 9

v. 58-59

222664

1-10-62

Issued quarterly by Haverford
College, Haverford, Pennsylvania

Entered as second-class matter November 2, 1944, at the Post
Office at Haverford, Pa., under the Act of August 24, 1912.

Printed in U.S.A.

HAVERFORD COLLEGE BULLETIN



1959-1960

HAVERFORD, PENNSYLVANIA

Contents

College Calendar, 1959-60	5
Corporation	6
Board of Managers	7
Faculty	9
Administration	15
Standing Committees of the Faculty	16
College Program	17
Aims and Objectives	19
History	20
Resources	21
Admission	23
College Entrance Board Tests	24
Transfer Students	26
Advanced Standing	26
Financial Arrangements	27
Rooms	27
Expenses	27
College Responsibility	28
Monthly Payments	28
Student Loan Fund	29
Student Aid	29
Scholarships	30
Curriculum	36
General	36
Bachelor's Degree	36
Limited Electives	37
Free Electives	38
Non-Academic Electives	38
Major Concentration	38

Freshman Program	40
Preparation for Professions	41
Regulations	42
Conflicting Courses	42
Additional Courses	42
Audited Courses	42
Course Changes	42
Special Cases	43
Evaluation of Academic Performance	43
Intercollegiate Cooperation	44
Junior Year Abroad	44
Visitors and Lectures	44
Graduate Study	45
Admission to Candidacy for Master's Degree	45
Requirements	45
Courses of Instruction	47
Arts and Service Program	98
Student Government	101
Honor System	101
Student Committees	102
Student Organizations	102
Joint Faculty and Student Groups	104
Student Publications	104
Health Program	105
Library, Laboratories, and other Academic Facilities	106
Fellowships, Prizes and Honors	112
Alumni Association	118
Index	124

1959

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Sept.			1	2	3	4	5	Nov.	1	2	3	4	5	6	7
	6	7	8	9	10	11	12		8	9	10	11	12	13	14
	13	14	15	16	17	18	19		15	16	17	18	19	20	21
	20	21	22	23	24	25	26		22	23	24	25	26	27	28
	27	28	29	30					29	30					
Oct.					1	2	3	Dec.			1	2	3	4	5
	4	5	6	7	8	9	10		6	7	8	9	10	11	12
	11	12	13	14	15	16	17		13	14	15	16	17	18	19
	18	19	20	21	22	23	24		20	21	22	23	24	25	26
	25	26	27	28	29	30	31		27	28	29	30	31		

1960

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Jan.							1 2	Apr.							1 2
	3	4	5	6	7	8	9		3	4	5	6	7	8	9
	10	11	12	13	14	15	16		10	11	12	13	14	15	16
	17	18	19	20	21	22	23		17	18	19	20	21	22	23
	24	25	26	27	28	29	30		24	25	26	27	28	29	30
	31														
Feb.		1	2	3	4	5	6	May	1	2	3	4	5	6	7
	7	8	9	10	11	12	13		8	9	10	11	12	13	14
	14	15	16	17	18	19	20		15	16	17	18	19	20	21
	21	22	23	24	25	26	27		22	23	24	25	26	27	28
	28	29							29	30	31				
Mar.			1	2	3	4	5	June				1	2	3	4
	6	7	8	9	10	11	12		5	6	7	8	9	10	11
	13	14	15	16	17	18	19		12	13	14	15	16	17	18
	20	21	22	23	24	25	26		19	20	21	22	23	24	25
	27	28	29	30	31				26	27	28	29	30		

College days in heavy-face type.

Calendar

1959-1960

New students arrive Wednesday afternoon	Sept. 16
Registration of all new students	Sept. 18 & 19
Returning students arrive, beginning Sunday afternoon	Sept. 20
Beginning of College year with Collection 11 A.M.	Sept. 21
Registration of returning students to be filed by 4:30 P.M.	Sept. 21
First semester classes begin 8 A.M.	Sept. 22
Friday morning classes according to Saturday schedule	Nov. 20
Saturday (Swarthmore Day) no classes	Nov. 21
Thanksgiving vacation begins 1 P.M.	Nov. 25
ends 8 A.M.	Nov. 30
Registration (Spring Term)	Dec. 8, 9, 10
Christmas vacation begins 4 P.M.	Dec. 18
ends 8 A.M.	Jan. 4
First semester program ends 6 P.M.	Jan. 14
All papers assigned must be turned in by 4 P.M.*	
Mid-year examinations (dates inclusive) **	Jan. 16 to Jan. 30
Second semester classes begin 8 A.M.	Feb. 1
Spring vacation begins noon	Mar. 26
ends 8 A.M.	Apr. 4
Applications for Scholarships	Apr. 15
Major Registration card for men in the Fourth term must be filed by 4 P.M.	Apr. 15
Registration (Fall Term)	Apr. 26, 27, 28
Manuscripts in competition for prizes must be filed in the Registrar's Office by 4 P.M.	May 2
Second Semester classes end 12 noon	May 14
All papers assigned must be turned in by 4 P.M.*	
Senior Comprehensive Examinations (dates inclusive)	May 16, 17, 18, 19
Final Examinations (dates inclusive) **	May 18 to June 1
Commencement	June 3

*If a paper is assigned in place of the final examination in a course, the date by which it is due may be set by the instructor not later than 4 P.M. on Tuesday of the final week of the examination period, or for seniors in their final semester, noon on Monday of that week. Late papers will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean.

**Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.

Faculty

- HUGH BORTON *President*
B.S., Haverford College; A.M., Columbia University; Ph.D., University of Leyden.
- LEGH WILBER REID *Professor of Mathematics, Emeritus*
S.B., Virginia Military Institute; A.B., Johns Hopkins University; S.M., Princeton University; Ph.D., University of Göttingen.
- †ALBERT HARRIS WILSON *Professor of Mathematics, Emeritus*
S.B. and S.M., Vanderbilt University; Ph.D., University of Chicago; L.H.D., Haverford College.
- FREDERIC PALMER, JR. *Professor of Physics, Emeritus*
A.B., A.M. and Ph.D., Harvard University.
- LEON HAWLEY RITTENHOUSE *Professor of Engineering, Emeritus*
M.E., Stevens Institute of Technology.
- †FRANK DEKKER WATSON *Professor of Sociology and Social Work, Emeritus*
B.S. in Economics and Ph.D., University of Pennsylvania.
- DEAN PUTNAM LOCKWOOD *Professor of Latin and Librarian, Emeritus*
A.B., A.M. and Ph.D., Harvard University.
- JOHN OTTO RANTZ *Instructor in Engineering, Emeritus*
- ABRAHAM PEPINSKY *Professor of Psychology, Emeritus*
A.B. and A.M., University of Minnesota; Ph.D., State University of Iowa.
- EDWARD DOUGLAS SNYDER *Professor of English, Emeritus*
A.B., Yale University; A.M. and Ph.D., Harvard University.
- †JOHN ALEXANDER KELLY *Professor of German, Emeritus*
A.B., Emory and Henry College; A.M. and Ph.D., Columbia University
- LEVI ARNOLD POST *Professor of Greek, Emeritus*
B.A., M.A., and L.H.D., Haverford College; A.M., Harvard University; B.A. and M.A., Oxford University.
- MARTIN FOSS *Lecturer in Philosophy, Emeritus*
LL.D., University of Jena.
- JOHN WILLIAM FLIGHT *Professor of Biblical Literature, Emeritus*
A.B., Hope College, A.M., Yale University; B.D. and Ph.D., Hartford Theological Seminary.
- ALFRED JULIUS SWAN *Professor of Music, Emeritus*
B.A. and M.A., Oxford University.
- (*The active members of the Faculty are arranged in the order of their appointment to their present rank. Two or more appointed in the same year are listed in alphabetical order.*)
- *DOUGLAS VAN STEERE *T. Wistar Brown Professor of Philosophy*
S.B., Michigan State College; B.A. and M.A., Oxford University; A.M. and Ph.D., Harvard University; D.D., Lawrence College; L.H.D., Oberlin College.
- CLETUS ODIA OAKLEY *Professor of Mathematics*
S.B., University of Texas; S.M., Brown University; Ph.D., University of Illinois.
- *RALPH MILLARD SARGENT *F. B. Gummere Professor of English*
A.B., Carleton College, Ph.D., Yale University.

†Deceased.

*Absent on leave, 1959-60.

**Absent on leave, first semester.

- HOWARD MORRIS TEAF, JR. *Professor of Economics*
B.S. in Economics, M.A. and Ph.D., University of Pennsylvania
- IRA DE AUGUSTINE REID *Professor of Sociology*
A.B. and LL.D., Morehouse College; A.M., University of Pittsburgh; Ph.D.,
Columbia University.
- HARRY WILLIAM PFUND *Professor of German*
B.A., Haverford College; A.M. and Ph.D., Harvard University.
- HERMAN MILES SOMERS *Professor of Political Science*
S.B. and Ph.M., University of Wisconsin; A.M. and Ph.D., Harvard University.
- * ROY EARL RANDALL *Professor of Physical Education*
Ph.B. Brown University *and Director of Intercollegiate Athletics*
- WILLIAM ATTICH REITZEL *Professor of Social Science*
B.S., Haverford College; B.A. and M.A., Oxford University.
- THOMAS EDWARD DRAKE *Professor of American History*
A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale Uni-
versity.
- LOUIS CRAIG GREEN *Professor of Astronomy*
A.B., A.M. and Ph.D., Princeton University.
- WILLIAM EDWARD CADBURY, JR. *Professor of Chemistry*
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.
- RUSSELL RAYMOND WILLIAMS, JR. *Professor of Chemistry*
B.A., University of Buffalo; Ph.D., Stanford University.
- HOWARD COMFORT *Professor of Classics*
B.A., Haverford College; A.M. and Ph.D., Princeton University.
- WILLIAM DOCHERTY, JR. *Professor of Physical Education*
S.B., Temple University. *and Director of Physical Education*
- CLAYTON WILLIAM HOLMES *Professor of Engineering*
B.S. in M.E. and M.E., University of New Hampshire; M.A., Haverford College.
- JOHN ASHBY LESTER, JR. *Professor of English*
B.S., Haverford College; A.M. and Ph.D., Harvard University.
- ALVIN HARVEY HANSEN *Visiting Professor of Economics*
B.A. and LL.D., Yankton College; M.A. and Ph.D., University of Wisconsin.
- THEODORE BRINTON HETZEL *Associate Professor of Engineering*
B.S., Haverford College; B.S. in M.E., University of Pennsylvania; M.S. and
Ph.D., Pennsylvania State University.
- MANUEL JOSE ASENSIO *Associate Professor of Romance Languages*
B.A., University of Granada; M.A. and Ph.D., University of Pennsylvania.
- * HOLLAND HUNTER *Associate Professor of Economics*
B.S., Haverford College; A.M. and Ph.D., Harvard University.
- WALLACE TREVETHIC MACCAFFREY *Walter D. and Edith M. L. Scull*
Associate Professor of English Constitutional History
A.B., Reed College; A.M. and Ph.D., Harvard University
- FRANCIS HOWARD PARKER *Associate Professor of Philosophy*
A.B., Evansville College; A.M., Indiana University; Ph.D., Harvard University.
- FRANCES DE GRAAFF *Associate Professor of Russian*
Ph.D., University of Leyden. *on joint appointment with Bryn Mawr College*

* Absent on leave, first semester.

* * Absent on leave, second semester.

- MARCEL MARC GUTWIRTH *Associate Professor of French*
A.B., Columbia College; A.M. and Ph.D., Columbia University.
- JOHN ASHMEAD, JR. *Associate Professor of English*
A.B., A.M. and Ph.D., Harvard University.
- WILLIAM HEARTT REESE *Associate Professor of Music and Director*
of Glee Club and Orchestra on joint appointment with Bryn Mawr College
A.B., Amherst College; M.A., Columbia University; Ph.D., University of Berlin.
- AARON LEMONICK *Associate Professor of Physics*
B.A., University of Pennsylvania; A.M. and Ph.D., Princeton University.
- ARIEL GIDEON LOEWY *Associate Professor of Biology*
B.S. and M.S., McGill University; Ph.D., University of Pennsylvania.
- FAY AJZENBERG-SELOVE *Associate Professor of Physics*
B.S.E., University of Michigan; M.S. and Ph.D., University of Wisconsin.
- *FRANK JOSEPH QUINN *Associate Professor of English Literature*
B.A. and M.A. Oxford University.
- ROBERT IRVING WALTER *Associate Professor of Chemistry*
B.S., Swarthmore College; M.A., Johns Hopkins University; Ph.D., University
of Chicago.
- DOUGLAS HAMILTON HEATH *Associate Professor of Psychology*
A.B., Amherst College; A.M. and Ph.D., Harvard University.
- *ROBERT JOEL WISNER *Associate Professor of Mathematics*
B.S. and M.S., University of Illinois; Ph.D., University of Washington.
- BRADFORD COOK *Associate Professor of French*
B.A., Williams College; Ph.D., Yale University.
- FORREST DUANE COMFORT *Counselor*
A.B., Penn College; M.A., Haverford College; Ed.M., Harvard University.
- JOHN RICHARD CARY *Assistant Professor of German*
B.A., Haverford College; Ph.D., Johns Hopkins University.
- EDGAR SMITH ROSE *Assistant Professor of English*
A.B., Franklin and Marshall College; A.M. and Ph.D., Princeton University.
- MELVIN SANTER *Assistant Professor of Biology*
B.S., St. John's University; M.S., University of Massachusetts; Ph.D., George
Washington University.
- ALFRED WANNER SATTERTHWAITE *Assistant Professor of English*
A.B., A.M. and Ph.D., Harvard University.
- ROBERT HAWES BUTMAN *Assistant Professor of Drama and Public*
Speaking and Director of Drama
on joint appointment with Bryn Mawr College
B.A. and M.A., University of North Carolina.
- HARMON CRAIG DUNATHAN *Assistant Professor of Chemistry*
B.A., Ohio Wesleyan University; M.S. and Ph.D., Yale University.
- IRVING FINGER *Assistant Professor of Biology*
B.A., Swarthmore College; Ph.D., University of Pennsylvania.
- WILL LYONS *Assistant Professor of Economics*
B.S., Bucknell University.
- COLIN FRANCIS MACKAY *Assistant Professor of Chemistry*
B.S., University of Notre Dame; M.S. and Ph.D., University of Chicago.

* Absent on leave, 1959-60.

- †CHARLES ERNEST MAYER *Assistant Professor of Psychology*
A.B., Harvard University; M.A. and Ph.D., Boston University.
- PAUL J. R. DESJARDINS *Assistant Professor of Philosophy*
B.A., M.A. and Ph.D., Yale University.
- GERALD FREUND *Assistant Professor of Political Science*
B.A., Haverford College; D.Phil., Oxford University.
- ROBERT LESLIE HORN *Assistant Professor of Biblical Literature*
B.A., Earlham College.
- GEORGE ALEXANDER KENNEDY *Assistant Professor of Classics*
A.B., Princeton University; A.M. and Ph.D., Harvard University.
- JEROME WODINSKY *Assistant Professor of Psychology*
B.A., Brooklyn College; Ph.D., University of Texas. *Spring Semester, 1959*
- JAMES O. BROOKS *Assistant Professor of Mathematics*
B.A., Oberlin College; M.A., University of Michigan.
- JOHN HERBERT DAVISON *Assistant Professor of Music*
B.A., Haverford College; A.M., Harvard University.
- JAY HENRY GELLENS *Assistant Professor of English*
B.A., Kenyon College; M.A. and Ph.D., Yale University.
- JAMES WINTHROP HARPER *Assistant Professor of English*
B.A., Knox College; M.A., Stanford University.
- ERNEST JOSEPH PRUDENTE *Assistant Professor of Physical Education*
B.S. in Ed., University of Pennsylvania.
- HOWARD BENEDICT RANKEN *Assistant Professor of Psychology*
B.S., Yale University; Lic.-ès-L., University of Paris; Ph.D., Columbia University.
- LOUIS SOLOMON *Assistant Professor of Mathematics*
A.B. and Ph.D., Harvard University.
- JOHN PHILIP SPIELMAN, JR. *Assistant Professor of History*
B.A., Montana State University; M.A. and Ph.D., University of Wisconsin.
- THOMAS ALONZO BENHAM *Lecturer in Physics*
B.S. and M.S., Haverford College.
- CLARENCE EVAN PICKETT *Lecturer in Christian Ethics*
A.B., Penn College; B.D., Hartford Theological Seminary; LL.D., Haverford College; LL.D., Earlham College.
- HENRY JOEL CADBURY *Lecturer in Quakerism*
B.A. and Litt.D., Haverford College; A.M. and Ph.D., Harvard University;
D.D., University of Glasgow; LL.D., Whittier College; LL.D., Swarthmore College; L.H.D., Howard University.
- JOACHIM MAASS *Lecturer in German Literature*
Freie Akademie der Künste, Hamburg.
- EDWARD BURNETT HARPER *Lecturer in Anthropology*
B.A., Reed College; Ph.D. Cornell University.
on joint appointment with Bryn Mawr College
- JACQUES ANDRE MARIÉS *Lecturer in French*
Lic.-ès-L., University of Toulouse; Agr. de l'Univ, University of Paris.

†Deceased.

- I. MILTON SACKS *Visiting Lecturer in Political Science*
B.S., College of the City of New York; M.A., Yale University.
- EDWARD G. JANOSIK *Visiting Lecturer in Political Science*
B.S. in Ed., Southeast Missouri State College; M.A., and Ph.D., University
of Pennsylvania.
- JOHN WALLACE SMITH *Instructor in Sociology*
B.A., M.A., and Ph.D., University of Pennsylvania.
- PAUL D. SHEATS *Instructor in English*
B.A., Harvard University, B.A., Oxford University
- OTTOMAR RUDOLF *Instructor in German*
B.A., Manhattan College.
- NORMAN BARGE BRAMALL *Assistant in Physical Education*
- RAYMOND TAYLOR BRAMALL *Assistant in Physical Education*
B.S., M.S. and Ed.D., University of Pennsylvania.
- NORMAN MONTGOMERY WILSON *Assistant in Engineering*
- FRITZ JANSCHKA *Artist in Residence, Bryn Mawr College*
Akademie der Bildenden Künste. Vienna.
- ELIZABETH UFFORD GREEN *Research Associate in Biology*
A.B., M.A., and Ph.D., Bryn Mawr
- ANNE RAMSAY SOMERS *Research Associate in Political Science*
B.A., Vassar College
- DAVID SHOEMAKER RICHIE *Adviser in Work Camp Program*
B.S., Haverford College.

Visiting Faculty on The Philips Fund

1958-1959

- H. STANLEY BENNETT, M.D.
Professor of Anatomy, University of Washington.
- AHMED BOKHARI, M.A.
Under Secretary-General, United Nations.
- DIRK BROUWER, Ph.D.
Director of the Yale University Observatory.
- HADLEY CANTRIL, Ph.D.
Board Chairman, Institute of International Social Research.
- DORWIN CARTWRIGHT, Ph.D.
Professor and Director, Research Center for Group Dynamics, University of Michigan.
- JOSEPH S. CLARK, LL.D.
Senior Senator from Pennsylvania.
- CLYDE COOMBS, Ph.D.
Professor of Psychology, University of Michigan.
- F. H. C. CRICK, Ph.D.; F.R.S.
Member, Unit of Molecular Biology, Cambridge University.
- DON W. FAWCETT, M.D.
Professor of Anatomy, Cornell University.
- RICHARD P. FEYNMAN, Ph.D.
Professor of Physics, California Institute of Technology.
- WILLIAM A. FOWLER, Ph.D.
Professor of Physics, California Institute of Technology.
- ALAN HODGE
Department of Biology, Massachusetts Institute of Technology.
- VERNON M. INGRAHAM, Ph.D.
Associate Professor of Biochemistry, Massachusetts Institute of Technology
- ALBERT L. LEHNINGER, Ph.D.
Professor of Physiological Chemistry, Johns Hopkins University.
- ALLA G. MASEVITCH
Sternberg Astronomical Institute, Moscow.
- EDOUARD MOROT-SIR, Ph.D.
Cultural Counselor of the French Embassy to the United States.
- MONTROSE J. MOSES
Assistant Professor, Department of Cytology, Rockefeller Institute.
- THEODORE NEWCOMB, Ph.D.
Professor of Psychology and Sociology, University of Michigan.
- GEORGE S. PALADE, Ph.D.
Professor, Department of Cytology, Rockefeller Institute.
- SANFORD L. PALAY, M.D.
Chief, Section of Neurocytology, National Institutes of Health.
- JULIAN A. PITT-RIVERS, Ph.D.
Visiting Professor of Anthropology, University of Chicago.
- KEITH R. PORTER
Rockefeller Institute for Medical Research, Professor and Member.
- ALLAN R. SANDAGE
Astronomer, Mt. Wilson and Palomar Observatories.
- ROY SCHAFER, Ph.D.
Chief, Psychology Department, Department of Psychiatry, Yale University Medical School.
- MARTIN SCHWARZSCHILD, Ph.D.
Higgins Professor of Astronomy, Princeton University.
- ANDREW SZENT-GYORGYI
Established Investigator, American Heart Institute for Muscle Research.

HENRY TAUBE, Ph.D.

Chairman of Department of Chemistry, University of Chicago.

J. HERBERT TAYLOR, Ph.D.

Professor of Cell Biology, Columbia University

ALBERT W. TUCKER, Ph.D.

Chairman of Department of Mathematics, Princeton University

HAROLD C. UREY, Ph.D.

Professor of Chemistry, University of California.

PAUL C. ZAMECNIK, M.D.

Professor of Oncologic Medicine, Harvard University

Administration

HUGH BORTON	<i>President</i>
B.S., Haverford College; A.M., Columbia University; Ph.D., University of Leyden.	
ARCHIBALD MACINTOSH	<i>Vice President and Director of Admissions</i>
B.A., Haverford College; M.A., Columbia University; Ph.D., University of Pennsylvania; LL.D., Haverford College	
WALTER C. BAKER	<i>Vice President for Development</i>
B.A., Haverford College	
WILLIAM EDWARD CADBURY, JR.	<i>Dean</i>
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania	
ALDO CASELLI	<i>Comptroller and Business Manager</i>
D.S.E. and C., University of Naples	
MRS. EDYTHA M. CARR	<i>Registrar</i>
JOHN ASHBY LESTER, JR.	<i>Librarian</i>
B.S., Haverford College; A.M. and Ph.D., Harvard University	
THOMAS EDWARD DRAKE	<i>Curator of the Quaker Collection</i>
A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University	
LOUIS CRAIG GREEN	<i>Director of the Strawbridge Memorial Observatory</i>
A.B., A.M. and Ph.D., Princeton University	
WILLIAM WOLTER LANDER	<i>Physician</i>
B.S., Ursinus College; M.D., University of Pennsylvania	
PETER G. BENNETT	<i>Psychiatrist for the College</i>
M.D., University of Pennsylvania.	
MRS. MIRIAM R. NUGENT	<i>Director of Food and Housing</i>
B.S., New York University	
CHARLES PERRY	<i>Associate Director for Development</i>
B.A., Haverford College; M.S.S., Bryn Mawr College	
WILLIAM WEBSTER AMBLER	<i>Assistant Director of Admissions</i>
B.A., Haverford College	
BERTHA KRATZ	<i>Resident Nurse</i>
R.N., Stetson Hospital	
BENNETT SMEDLEY COOPER	<i>Alumni Secretary and Assistant to the President</i>
B.S., Haverford College	
GERTRUDE MANN WONSON	<i>Secretary to the Director of Admissions</i>
B.S., Simmons College	
MRS. KATHARINE M. CARTER	<i>Secretary to the President</i>
A.B., Wilson College	
MRS. FLORENCE N. ANDREWS	<i>Secretary to the Dean</i>

Academic Council

The Academic Council consists of the President as Chairman, three elected divisional representatives of the Faculty, one to be elected yearly, the two Faculty representatives to the Board, Vice President MacIntosh, and the Dean, as Secretary of the Council. The Academic Council: 1) considers matters of college policy referred to it by the President and by members of the Council, 2) appoints the standing faculty committees, and 3) makes recommendations to the President on Faculty appointments, reappointments and promotions in accordance with accepted procedures. The elected members of the Academic Council for the academic year beginning September 1, 1959 are Mr. MacCaffrey (Social Sciences) three years; Mr. Lemonick (Natural Sciences) two years; and Mr. Gutwirth (Humanities) one year.

Standing Committees of the Faculty

ACADEMIC STANDING: Mr. Lester, *Chairman*
Messrs. Lyons, Walter.

ADMISSIONS: Mr. Parker, *Chairman*
Messrs. Loewy, MacCaffrey, Ambler, *ex officio*

ARTS AND SERVICE: Mr. Drake, *Chairman*
Mr. Hetzel

CURRICULUM AND COLLEGE PROGRAM: Mr. Loewy, *Chairman*
Messrs. Green, Reid, Hunter, Kennedy

FACULTY COMPENSATION: Mr. Oakley, *Chairman*
Messrs. Finger, Hunter, Docherty

FACULTY RESEARCH AND STUDY: Mrs. Selove, *Chairman*
Messrs. H. Comfort, Drake, MacKay, Rose, Reid

FELLOWSHIPS AND PRIZES: Mr. Pfund, *Chairman*
Messrs. Dunathan, Heath

LIBRARY: Mr. Ashmead, *Chairman*
Messrs. Horn, Santer, Teaf

PHILIPS VISITORS: Mr. Williams, *Chairman*
Messrs. Cary, Freund

MEDICAL PLANS: Mr. Cadbury, *Chairman*
Messrs. Hetzel, Satterthwaite

STUDENT AFFAIRS: Mr. Somers, *Chairman*
Messrs. Benham, Desjardins

Student Members: Oscar B. Goodman, Donald B. McKelvey, David W. Morgan

The President and Vice President MacIntosh are *ex officio* members of all committees. The Vice President for Development will attend such committee meetings as he considers necessary for the proper functioning of his office.

THE COLLEGE PROGRAM

Aims and Objectives

AS A QUAKER institution, Haverford College stresses three interrelated elements in its educational philosophy. These are a high standard of academic performance within a broadly-based, liberal arts curriculum, the individual nature of this education, and the importance of personal ideals and moral values. Thus, while the College places a high value on scholarship and intellectual expertness, it emphasizes simultaneously the development of sound ethical judgments based on a clear perception of individual and social aims.

A selective admissions policy brings to Haverford a diverse group of young men of high scholastic ability. The personality and character of candidates are important considerations in their selection. In his academic work, each student is encouraged and expected to perform at a level consistent with his abilities. The more capable the student, the more is expected of him. A Haverford student will soon discover the high value which the College attaches to intellectual integrity, a search for truth wherever it leads, independence of judgment, an imaginative grasp of the interrelationship of the branches of knowledge, and a capacity to carry out independent work. The requirements for graduation are designed to develop the ability to learn, to understand, and to reach sound conclusions, on the basis of study in each of the broad fields of human knowledge as well as by concentration in a single field.

In an atmosphere which demands high academic achievement of its students and which values and cherishes freedom of thought, Haverford College can be justly proud of the quality and ability of its faculty. Individually and collectively, their teaching skill, their enthusiasm for scholarly research, and their devotion to learning provide a continuous challenge and inspiration to their students.

The College believes that the desirable qualities cultivated in the classroom and laboratory can be supplemented and strengthened by a sound program of non-academic courses, athletics, and extracurricular activities. The Arts and Service non-credit courses are designed to encourage interest in constructive community service and to develop appreciation of beauty and certain creative skills. Athletic activities, including intramural and intercollegiate contests, promote physical fitness and coordination and provide opportunity for all students to experience the benefits of wholesome competition and team play. A variety of campus organizations allow each student to join with others in pursuing common interests. The important role of the honor system in student government emphasizes the value which the community places on individual responsibility.

Haverford College believes that while the mastery of facts, techniques, and

certain skills is important, it must be coupled with the desire and moral capacity to use them for worthwhile ends. It will continue to lay stress on the formation of moral values and personal ideals, not insisting on any set beliefs, but cherishing freedom of religious beliefs and of conscience. Such growth is fostered by the weekly Collections, or assemblies, where leaders from various walks of life share with the undergraduates their diverse experiences and points of view. In addition, outstanding scholars frequently visit the campus for lectures or special classes, and have extensive personal contacts with students. In the mid-week Fifth-Day Meeting, a traditional Quaker meeting for worship, there is opportunity for the Haverford College student to learn from the meditative silence or from a spoken message how to delineate and cultivate the highest moral principles and to see himself in his proper relation to his fellows and to life as a whole.

History

HAVERFORD COLLEGE was founded in 1833 as the first college established by members of the Society of Friends in the United States. It was organized as an institution which would provide an "enlarged and liberal system of instruction" to meet the intellectual needs of "Friends on this continent," offering a course of instruction in science, mathematics, and classical languages "as extensive as given in any literary institution in this country." In those days it was modestly called Haverford School, but the intent was clear to create a center that would give to Friends the kind of education which other young Americans were receiving in the best colleges.

The choice of the site for the College exercised its founders for three years; it was settled by the purchase of 198 acres of rolling farmland in the center of the Welsh Tract, a large area originally set apart by William Penn for Quaker immigrants from Wales. Today the campus (increased to 216 acres) is a beautiful area of fields and woodlands, although the Philadelphia suburbs have spread out along the Main Line to Haverford and beyond.

In its first forty years, the College gained in maturity while establishing policies and practices to make effective the ideals of its founders. In 1847 it opened its doors to young men who were not members of the Society of Friends, and in 1856 it became a degree-granting institution, with a tradition of high scholarship which has continued unshaken.

President Isaac Sharpless, 1887-1917, led Haverford College into the forefront of American collegiate institutions. His many-sided genius enabled him to gather and hold together a faculty of extraordinary capacity. During the administration of William Wistar Comfort from 1917-1940 the student body

increased from two hundred to over three hundred, and the College continued its emphasis on intellectual achievement combined with concern for the physical and moral development of its undergraduates. Felix Morley, a Rhodes scholar of the Class of 1915, was President during the difficult years of World War II. Gilbert White, his successor, took office in 1946 and continued until 1955, at which time he retired to head the Department of Geography at the University of Chicago. Hugh Borton, of the Class of 1926, was inaugurated as President October 19, 1957.

Resources

Over the years Haverford's campus has been improved by the addition of dormitories and other buildings to supplement Founders Hall, which dates from the inception of the College, and Alumni Hall, built in 1856, which now forms a part of the Library. Except for about sixty day students, all the students at Haverford live in dormitories on the campus or in houses immediately adjacent to it. Similarly, a large portion of the Faculty live in houses and apartments owned by the College and situated on the campus. This is helpful in establishing an atmosphere of community life and in encouraging personal contacts between student and teacher.

The dormitories include Founders Hall; Barclay, built in the nineteenth century; Lloyd, completed in 1926; and Morris E. Leeds Hall, which was opened in the Fall of 1955. The Spanish and French Houses, established in recent years, give students interested in these studies an opportunity to live in close association with others specializing in these fields.

Chase Hall, containing classrooms; the Lyman Beecher Hall Chemistry Building; and Sharpless Hall, containing the physics and biology laboratories, date from President Sharpless's administration, as does the Haverford Union, used for many College activities; Roberts Hall, the administration building; and the Morris Infirmary. The Gymnasium, built in 1900, was supplemented in the Fall of 1957 by the Alumni Field House, which affords capacious facilities for indoor athletics and already has proved its value in Haverford's extensive program for physical education.

The endowment and trust funds of Haverford College, which currently have a book value of over \$12,000,000, together with the support given to the College annually by its Alumni and other friends, has enabled it to maintain a superior faculty of unusual size in proportion to the number of students. Enrollment is currently limited to approximately 450 so that teaching may continue on the basis of personal acquaintance in a unified community as it has throughout the history of the College.

Haverford Station on the Pennsylvania Railroad, between Bryn Mawr and Ardmore, is twenty minutes from downtown Philadelphia. The campus fronts on the famous Lancaster Pike (U. S. 30). It is approximately two hours train journey from Haverford to New York or Baltimore and less than three hours to Washington. Philadelphia's Orchestra, its museums and libraries, its scientific laboratories and industrial plants are all easily accessible to Haverford students, who can make full use of the cultural opportunities of a city while enjoying the beauty of a college campus in a quiet suburban setting.

Admission

THE POLICY of Haverford College is to admit to the Freshman class those applicants who, in the opinion of the Committee on Admissions, are best qualified to profit by the opportunities which the College offers and at the same time to contribute to undergraduate life. Due regard is given not only to scholarly attainment, as shown by examination and by school record, but also to character, personality, and interest and ability in important extra-curricular activities.

Whenever practicable, the College will expect the candidate to have a personal interview with the Director of Admissions or another administrative officer. Every applicant should realize that, in view of the limited enrollment, he is entering a competition for admission to a carefully selected and comparatively small student organization. On the basis of all information available—College Board reports, school record, class standing, evidence touching on character and personality—the application will be accepted or rejected, and the decision of the Committee on Admissions is final. Preference will be given to those with superior records and credentials rather than to those with mere priority of application.

Students who are accepted will be admitted without conditions. Those who on entrance show marked proficiency in certain subjects will be permitted to take courses usually not open to Freshmen; in such cases, however, the number of courses required for a degree will not be diminished.

Each applicant for admission must take the Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board. The English Achievement Test is required, but a candidate may choose the other two tests. If there is any doubt about the choice of the two tests, he should consult the Director of Admissions. Applications involving divergence from the normal procedure must be discussed in detail with the Director of Admissions.

In addition, the applicant must submit his school record and a certificate of character signed by his school principal. The school certificate must show satisfactory attainment in 15 units* of work. The preparatory course must include four years of English, at least a year and a half of Algebra and one year of Geometry (demonstrative or analytic or both), and three years of a foreign language. Cases involving divergence from the requirements should be discussed with the Director of Admissions. The remaining units will be drawn

* A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. A four years' secondary school curriculum should be regarded as representing not more than 16 units of work.

from laboratory science, social science, history, and additional mathematics and language.

A candidate may offer an elective in a subject not usually listed, provided he shows proficiency which indicates an amount of study and intellectual effort commensurate with that required in other subjects. The subject chosen must have the approval of the Admissions Committee.

Applications for admission should be submitted early in the candidate's senior year. The application must be accompanied by a check or money order for \$10.00 drawn to the order of Haverford College to cover the application fee, which is not refundable. Upon receipt of the application, the College will send a school record form to the candidate for completion by the school officials.

Candidates are encouraged to visit the College for an interview. The Office of Admissions is open from 9:00 a.m. until 4:30 p.m. on week-days and from 9:00 a.m. until noon on Saturdays. The office is closed on Saturdays during the summer. Arrangements should be made in advance for an appointment.

Information Concerning College Entrance Board Tests

The College Entrance Examination Board will offer examinations on each of the following dates during the academic year 1959-60.

Saturday, December 5, 1959	— Scholastic Aptitude Test and Achievement Tests
Saturday, January 9, 1960	— Scholastic Aptitude Test only
Saturday, February 6, 1960	— Scholastic Aptitude Test only
Saturday, March 12, 1960	— Scholastic Aptitude Test and Achievement Tests
Saturday, May 21, 1960	— Scholastic Aptitude Test and Achievement Tests
Wednesday, August 10, 1960	— Scholastic Aptitude Test and Achievement Tests

8:45 A.M.—Scholastic Aptitude Test (Verbal and Mathematical Sections)

1:45 P.M.—Achievement Tests—Candidates may not take more than three of the following:

English Composition	Advanced Mathematics
Social Studies	Biology
French	Chemistry
German	Intermediate Mathematics
Latin	Physics
Spanish	

Haverford prefers that its candidates take the March series of College Board examinations, but it will accept the December series if a candidate wishes to take them at that time. If a candidate wishes to take the Scholastic Aptitude Test in January or February and the Achievement Tests in March, that plan is also acceptable to the College.

The *Bulletin of Information*, obtainable without charge from the College Entrance Examination Board, contains rules regarding applications, fees, reports, and the conduct of the tests; lists of examination centers; and an application blank bound in. This application blank may be used for any College Board administration. Additional application blanks will be available at the schools for students needing more than one. Separate booklets describing the tests and giving sample questions and answers will be sent to each registered candidate at no additional cost.

Candidates should make application by mail to the College Entrance Examination Board. Students who wish to take the examinations in any of the following States, territories, or foreign areas should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 27896, Los Feliz Station, Los Angeles, 27, California:

Alaska	Nevada	Province of Alberta
Arizona	New Mexico	Province of British Columbia
California	Oregon	Province of Manitoba
Colorado	Utah	Province of Saskatchewan
Hawaii	Washington	Republic of Mexico
Idaho	Wyoming	Australia
Montana	Northwest Territory	Pacific Islands, including
	Yukon Territory	Japan and Formosa

Candidates applying for examination in any State or foreign area not given above should write to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey.

Each application submitted for registration must be accompanied by the examination fee. A detailed schedule of fees follows:

Scholastic Aptitude Test	\$7.00
One, two or three hours of afternoon tests	9.00

There is no reduced fee for those taking morning and afternoon tests at one administration.

All applications and fees should reach the appropriate office of the Board not later than the dates specified below:

<i>Date of Tests</i>	<i>For examination centers located</i>	
	<i>in the United States, Canada, Alaska, Hawaii, the Canal Zone, Mexico, or the West Indies</i>	<i>in Europe, Asia, Africa, Central and South America, and Australia</i>
December 5, 1959	November 7	October 17
January 9, 1960	December 12	November 21
February 6, 1960	January 9	December 19
March 12, 1960	February 13	January 23
May 21, 1960	April 23	April 2
August 10, 1960	July 13	June 22

Applications received after these closing dates will be subject to a penalty fee of three dollars in addition to the regular fee.

Candidates are urged to send in their applications and fees as early as possible, preferably at least several weeks before the closing date, since early registration allows time to clear up possible irregularities which might otherwise delay the issue of reports. Applications received at a Board office later than two weeks prior to the date of the examination cannot be guaranteed acceptance. No candidate will be permitted to register with the supervisor of an examination center at any time. Only properly registered candidates, holding tickets of admission to the centers at which they present themselves, will be admitted to the tests. Requests for transfer of examination centers cannot be considered unless these reach the Board offices two weeks prior to the date of the examination or earlier.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The college will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports upon their tests from the Board.

Transfer Students

Since Haverford offers an integrated education, admission with advanced standing is ordinarily granted only in a limited number of cases. An undergraduate who comes from an approved college must submit an official statement of his honorable dismissal, together with a full list of his accepted preparatory subjects, and a list of all his college courses, with his record therein.

Advanced Standing

Students in high school who have done advanced work in one or more courses may take the Advanced Placement Tests given by the College Entrance Examination Board each May to determine eligibility for advanced placement or credit in college courses.

Financial Arrangements

Rooms

ENTERING FRESHMEN are assigned the rooms available after the other classes have made their choice. It is not always possible to meet the desire of Freshmen for the remaining rooms. The College assumes that a new student will accept any available room of approximately the same quality as the room for which a preference is expressed. New students will be notified of the rooms assigned to them by means of a list available in Roberts Hall. The choice of rooms by other students is governed by published rules.

A deposit of \$35 is required of all new students at the time they are notified of their admission. A similar deposit is required also of those students who have not been in attendance at the College during the immediately preceding semester. This amount will be deducted from the bill for the following year. If the student fails to present himself at the beginning of the semester for which he has been enrolled, the deposit will be forfeited.

Students are expected to treat College property with the same consideration as their own. A student is held financially responsible for any damage to his room, and any damage wilfully done will be sufficient reason for requesting withdrawal from the College.

Expenses

The tuition charge for all regular students is \$1100.00 for the academic year. Tuition for special students is \$150.00 per course, per semester. The board is \$520.00, and room rent \$280.00 per year. The payment of a Unit Fee of \$125.00 per year makes it possible for the student to participate in any campus organization without an additional fee.

The room charges include heat, electric light, weekly service, and the use of necessary bedroom furniture, i.e., a bureau, table, chair, study lamp, and a bed, the linen for which is furnished and laundered by the College. Students will supply their own study furniture, blankets, and towels.

The College requires that bills rendered August 15 and January 15 for the following semester's tuition, board, room, unit fee, and deposits be paid in full before the beginning of the semester.

In order to avoid last minute congestion, it is suggested that bills be paid by mail in advance.

A non-refundable fee of \$10.00 is payable when application for admission is presented.

The Unit Fee includes the following: Student activities fee, laboratory fees,

health fee, accident insurance (a maximum of \$500.00 within one year of each accident), diploma, and psychological tests when required by the College.

When a special diet is required for medical reasons, and approved by the College Physician, a charge of \$1.50 weekly will be made, but this charge may be increased if the special foods required are unusually expensive.

The College requires Freshmen to pay a fee of \$15.00 toward the cost of the orientation week.

The College requires a \$100.00 deposit to cover the cost of books and any other incidental charges which may arise during the school year. At intervals during the year, a bill for the actual charges made will be sent to the student. If this bill, or any other indebtedness, is not paid by the end of the semester, credits will not be granted for the work performed. Any unspent balance is refunded at the end of the academic year.

No reduction or refund of the tuition charge will be made after the first two weeks of any semester. If a student withdraws before the completion of the first two weeks, there will be a complete refund of his tuition. In case of illness or absence for any reason from the College, for four weeks or more, there will be a prorated refund of board. In case of withdrawals at any time, there will be no reduction of room rent for the semester unless the same room is re-rented, in which case the withdrawn occupant will receive the amount paid to the College by the new occupant. The unit fee cannot be refunded at the end of the academic year, even if student left college at mid-year.

College Responsibility

The College is not responsible for loss due to fire, theft, or any other cause. Students who wish to cover the first risk may apply for information at the Office of the Comptroller.

Monthly Payments

Since some parents prefer to pay tuition and other fees in equal monthly instalments during the academic year, we are glad to offer the convenient TUITION PLAN. Various plans are available at the following costs:

One Year Plan — 4% greater than the Cash Price

Two Year Plan — 5% greater than the Cash Price

Three Year Plan—6% greater than the Cash Price

Four Year Plan — 6% greater than the Cash Price

The 2, 3 and 4 year plans include Parent Life Insurance which provides

funds for the cost of the remaining period of schooling, if the parent who has signed the contract dies.

THE TUITION PLAN is optional and intended solely as a convenience. Upon request forms will be sent for signature.

Student Loan Fund

A loan fund is available for deserving students, other than members of the Freshman Class and transfer students during their first year, who may require financial assistance during their College course.

For information apply at the Office of the Comptroller.

Student Aid

In addition to the Student Loan Fund and to scholarship help, the College offers students the opportunity to work at standard rates in the Library and as clerical assistants to faculty and administrative officers of the College. Appointments are made from a list of eligible students prepared by Vice-President MacIntosh.

Scholarships

SCHOLARSHIPS are awarded on a basis of merit and individual need. While no scholarship is given for more than one year, it is the practice to continue the scholarship if a student's scholastic performance has been satisfactory and his need remains constant.

No scholarship will be given to a student whose academic standing is unsatisfactory.

No scholarship will be given to a student whose previous college bill has not been paid in full.

Candidates for freshman scholarships must file a financial statement with the College Scholarship Service, Princeton, N. J., before March 15th. Copies of the form to be used may be obtained from the applicant's high school or from the College Scholarship Service.

Students enrolled at the College must submit all preliminary correspondence and applications for undergraduate scholarships for 1960-61, together with supporting letters from parents or guardians, to Vice President MacIntosh before April 15, 1960.

It is assumed that requests for scholarships will not be made by those whose expenses can be met by their parents or from other sources.

CORPORATION AWARDS.—Four Corporation Scholars will be chosen in each class. In the senior, junior and sophomore classes the selection will be made on the basis of the highest general averages for the preceding year. In the freshman class the selection will be made after the May College Board Examinations (see page 24). Each man will be awarded \$50.00 in books. No application for these awards is necessary.

The Endowed Scholarships

It is not necessary for applicants to mention specific scholarships in their applications except in those cases where they meet the special conditions stated for the award.

I. ISAAH V. WILLIAMSON SCHOLARSHIPS.—Three scholarships, usually awarded to members of the Senior and Junior classes.

II. RICHARD T. JONES SCHOLARSHIP.—One scholarship.

III. EDWARD YARNALL SCHOLARSHIP.—One scholarship.

IV. THOMAS P. COPE SCHOLARSHIP.—One scholarship.

V. SARAH MARSHALL SCHOLARSHIP.—One scholarship.

VI. MARY M. JOHNSON SCHOLARSHIP.—One scholarship.

VII. ISAAC THORNE JOHNSON SCHOLARSHIP.—One scholarship, available for a student of Wilmington College or a member of Wilmington (Ohio) Yearly Meeting of Friends.

VIII. CASPAR WISTAR MEMORIAL SCHOLARSHIP.—One scholarship, available preferably for sons of parents engaged in Christian service (including secretaries of Young Men's Christian Associations) or students desiring to prepare for similar service in America or other countries.

IX. LOUIS JAQUETTE PALMER MEMORIAL SCHOLARSHIP.—This scholarship is awarded on application, preferably to a member of the Freshman Class who, in the opinion of a committee representing the donors and the President of the College, shall give evidence of possessing the qualities of leadership and constructive interest in student and community welfare which his friends observed in Louis Jaquette Palmer of the Class of 1894.

X. J. KENNEDY MOORHOUSE MEMORIAL SCHOLARSHIP.—One scholarship, intended for the member of the Freshman Class who shall appear best fitted to uphold at Haverford the standard of character and conduct typified by the late J. Kennedy Moorhouse of the Class of 1900—"a man modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living."

XI. PAUL W. NEWHALL MEMORIAL SCHOLARSHIP.—One scholarship.

XII. ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIPS.—Two or more scholarships, preference to be given to "a native of New York or Connecticut who now resides in one of those States."

XIII. SAMUEL E. HILLES MEMORIAL SCHOLARSHIP.—One scholarship.

XIV. CLASS OF 1913 SCHOLARSHIP.—One scholarship, preference to be given to sons of members of the Class of 1913 who may apply and who meet the usual requirements of the College.

XV. ISAAC SHARPLESS SCHOLARSHIP FUND.—Founded in 1941. Scholarships open to graduates of secondary schools and undergraduates of Haverford College. Awards based upon fulfillment by applicant of requirements used in selection of Rhodes Scholars to the University of Oxford. Awards

granted from list submitted to Selection Committee by the Director of Admissions, subject always to final approval by the President of the College; amount variable.

XVI. CLASS OF 1917 SCHOLARSHIP.—One scholarship, preference to be given to sons of members of the class of 1917 who may apply and who meet the usual requirements of the College.

XVII. THE GEOFFREY SILVER MEMORIAL SCHOLARSHIP.—One scholarship, available to a public school graduate in this general area who may enter Haverford.

XVIII. DANIEL B. SMITH SCHOLARSHIP.—One scholarship, awarded "in the discretion of the Faculty, as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of Benjamin R. Smith, if any such should apply."

XIX. SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND.—Founded November 1, 1954, by bequest of \$75,534.58 from Joseph T. Hilles, Class of 1888, in memory of his mother, Sarah Tatum Hilles, "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; to be awarded by the Managers to "needy and deserving students, and to be known as 'Sarah Tatum Hilles Memorial Scholarships.'"

XX. ELIHU GRANT MEMORIAL SCHOLARSHIP FUND.—Two or more scholarships, established February 2, 1944, by Mrs. Elihu Grant "to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938 a member of the College Faculty. The income from this fund is applied to scholarship assistance to students in Humanistic studies, primarily those specializing in the study of Biblical Literature and Oriental subjects." In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College.

XXI. JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXII. JOSEPH C. AND ANNE N. BIRDSALL SCHOLARSHIPS.—One scholarship, awarded at the discretion of the Faculty "to some student or students preparing for medicine, the selection to be based on character, scholarship and financial need."

XXIII. DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIV. CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP.—One scholarship, established June 13, 1946, by Mrs. Madeleine Seabury Febiger in memory of her husband, Christian Febiger, of the Class of 1900. The income of this fund is applied in paying tuition and other college expenses of worthy, needy students.

XXV. THE W. W. COMFORT FUND.—This fund was established in 1947 by the Haverford Society of Maryland. Grants from this fund are made with the understanding that the recipient shall, at an unstated time after leaving college, repay to the fund the amount which he received while an undergraduate.

XXVI. JONATHAN M. STEERE SCHOLARSHIP FUND.—Established in December 1948 by Jonathan M. Steere, of the Class of 1890. The scholarship is intended primarily for a graduate of Moses Brown School, Providence, Rhode Island, who shall be a member of the Society of Friends.

XXVII. WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP.—Founded in 1949 in memory of William Graham Tyler, of the Class of 1858. Preference shall be given to students from Oskaloosa, Iowa, or from William Penn College, on the basis of character, scholarship and financial need.

XXVIII. MAX LEUCHTER MEMORIAL SCHOLARSHIP.—Established in December, 1949, in memory of Max Leuchter, father of Ben Z. Leuchter, of the Class of 1946. One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIX. 1890 MEMORIAL SCHOLARSHIP FUND.—Established by a member of the Class of 1923 in memory of his father, of the Class of 1890, and in recognition of his father's friendship with the members of his class. The income from this fund is to be awarded as a scholarship by the College to a deserving student.

XXX. THE A. CLEMENT WILD SCHOLARSHIP.—Established May 14, 1951, by Mrs. Gertrude T. Wild in memory of her husband, A. Clement Wild, of the Class of 1899. The income from this fund is to be awarded as a scholarship by the College to a deserving student. Preference shall be given to an English exchange student or someone in a similar category.

XXXI. THE CHARLES MCCAUL FUND.—Established in 1951 by Mary N. Weatherly. One or more scholarships which shall be "awarded to students who show special interest in the field of religion and the social sciences."

XXXII. THE CAROLINE CHASE SCHOLARSHIP FUND.—Established December 10, 1951, by Caroline Chase, daughter of Thomas Chase, one-time

president of the College. This fund is an expression of Thomas Chase's "enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature."

XXXIII. THE JONATHAN AND RACHEL COPE EVANS FUND.—Founded in 1952 by the children and grandchildren of Jonathan and Rachel Cope Evans. One half of the income of this fund is to be used for scholarships.

XXXIV. THE C. PRESCOTT KNIGHT, JR., SCHOLARSHIP.—Established by the Haverford Society of New England for a New England boy from a New England school. In the award of this scholarship a committee, composed of alumni of the New England area, will consider character and personal qualities as well as the scholastic record and need of the applicant.

XXXV. THE ROY THURLBY GRIFFITH MEMORIAL FUND.—Established in June 1952 by Grace H. Griffith, in memory of Roy Thurlby Griffith, of the Class of 1919. The income from this fund is to be awarded as a scholarship by the College, "preference to be given to boys who have no father and who are in need of financial assistance."

XXXVI. THE MORRIS LEEDS SCHOLARSHIPS.—Established in 1953 by the Board of Managers of the College in memory of Morris E. Leeds, a member of the Class of 1888 and chairman of the Board from 1928 to 1945.

XXXVII. THE CLASS OF 1904 SCHOLARSHIP FUND.—Established June 4, 1954, in commemoration of the fiftieth anniversary of the Class of 1904. The income from this fund, which was contributed by the Class and the families of its deceased members, will provide one scholarship.

XXXVIII. THE WILLIAM MAUL MEASEY TRUST.—Established in 1952 by William Maul Measey, a friend of the College, who has been deeply interested in education and who has wished to help students of high quality in the pursuit of their education.

XXXIX. THE J. HORACE COOK FUND.—Established in 1955 by a bequest under the will of J. Horace Cook, of the Class of 1881, for a scholarship, "one to be awarded each year so that there will be a student in each class receiving his tuition from this fund."

XL. THE INAZO NITOBÉ SCHOLARSHIP FUND.—Established in November 1955 under the will of Anna H. Chace, "the income to be used and applied for the education at Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship."

XLI. THE GIFFORD K. WRIGHT SCHOLARSHIP FUND.—Established in December 1955 in memory of Gifford K. Wright, of the Class of 1893.

XLII. THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND.—Established in February 1956 one scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XLIII. THE SCOTT AWARD.—Established in 1955, for a period of five years, by the Scott Paper Company Foundation. "A two-year scholarship award for the Junior and Senior years, to be given to that student who is planning to embark upon a business career and who is judged by both students and faculty as an outstanding member of the Sophomore Class."

XLIV. THE UNION CARBIDE SCHOLARSHIPS.—Established in September 1955, by the Union Carbide and Carbon Corporation, four four-year scholarships which cover the cost of tuition, books and fees and which are available to students who are interested in careers in business or industry, research or teaching.

XLV. JACOB P. JONES ENDOWMENT FUND.—This fund was established in 1897. The donor stated: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

XLVI. THE W. LACOSTE NEILSON SCHOLARSHIP.—Established in 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory. The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts.

XLVII. THE KATHLEEN H. AND MARTIN M. DECKER FOUNDATION SCHOLARSHIP.—Established in 1958, the Kathleen H. and Martin M. Decker Foundation Scholarship is awarded annually to young men preparing themselves in the fields of physics, mathematics, chemistry and biology. The Scholarship-Committee, in making their selections, will have regard for candidates who rank high in scholarship, leadership and character. At least one scholarship will be given each year with a maximum grant of \$1,000. The actual amount of the stipend will be determined by the financial need of the candidate.

The General Scholarships

In addition to the endowed scholarships, a general scholarship fund is available. Awards from this fund will be made by the committee, the scholarships varying in size and number according to the need of the applicants.

Curriculum

General

HAVERFORD is a liberal arts college. Its curriculum is designed to develop in its students the capacity to learn and understand, and to make sound judgments based on knowledge and on thought. The requirements for the degree insure the exercise of these skills in each of the broad fields of human knowledge, and their subtler development in a single field of concentration.

Bachelor's Degree

To graduate from Haverford College a student must complete successfully four years of academic work and three years of Physical Education (part of which may be replaced by work in the Arts and Service Program). Credit for a year of academic work is given to a student who has passed five courses for each of two semesters with an average of at least 60 for the Freshman year, 65 for the Sophomore year, and 70 for the Junior and the Senior years. Among the courses taken, the student must include freshman English, the courses required for his Major Department, and, during the first three years, those required under the limited electives program (see below). In courses which are required as a part of his Major program, a student must achieve a minimum grade of 65. He must also include course 100 in his Major department during the second semester of the Senior year, at the end of which he must take the Major examination in that department, and receive in it a grade of at least 70. The degree normally conferred upon all candidates meeting these requirements is that of Bachelor of Arts. Upon request by the candidate and approval by the department concerned, however, the Bachelor of Science degree will be granted to men majoring in Natural Science, Mathematics, or Engineering.

The award of Honors for work toward the Bachelor's degree is described on pages 116-117.

Limited Electives

To ensure breadth of distribution, every student is required to take a certain number of courses in each of four designated areas of study. This requirement must be satisfied before a student can be admitted to Senior standing. Exceptions may be made by agreement between the Major Supervisor and the Dean. The requirements are as follows:

1. **FOREIGN LANGUAGES:** One full-year course in a foreign language beyond the elementary grade. For the purpose of this requirement, all first year foreign language courses are considered as of elementary grade. However, students whose native tongue is other than English are not required to study additional language in college.

2. **HUMANITIES:** Division of courses into (a) and (b) categories is designed to assure that each student will have experience in the two areas: philosophic and religious, and literary and aesthetic. While recognizing that each Humanities course may have some elements of both areas, the faculty has agreed that the desired objectives can be reached by requiring that each student shall pass two semester courses in each of the following categories (a) and (b):

- (a) All courses in Biblical Literature; Humanities 21-22; all courses in Philosophy except 14 and 36.
- (b) All courses in Classics numbered above 14; all courses in English numbered above 12, except English 37; all courses in French numbered above 22; all courses in German numbered above 14, except German 24; all courses in History of Art and in Music; Russian 201, 203 (at Bryn Mawr); all courses in Spanish numbered above 14.

3. **NATURAL SCIENCES AND MATHEMATICS:** The requirement may be met by passing four semester courses chosen from:

Astronomy, Biology, Chemistry, Mathematics, Physics,
Geology 101a, 101b* and Physical Science 31, 36.

At least one of the four semester courses must be a laboratory course. Excluded from the category of laboratory courses are Biology 13, Physical Science 31, 36, and all courses in the Department of Mathematics.

4. **SOCIAL SCIENCES:** The requirement may be met by passing four semester courses chosen from at least two of the following departments:

* Geology is offered at Bryn Mawr College. In order for a student to take courses at Bryn Mawr, he must meet the requirements as stated on page 44 of this catalog.

Economics, History, Political Science, and Sociology (including Psychology courses also listed under Sociology).

N.B. Courses in Classical Civilization, which are also listed under History, may be used in meeting the Social Science requirement or the Humanities (b) requirement, but not both.

Courses taken in Summer School will not normally be accepted by satisfying limited electives requirements.

Free Electives

A number of courses sufficient to bring the total to forty semester courses shall be chosen by the student in consultation with his Faculty Adviser, with the understanding that the College reserves the right, through the Adviser and the Dean, to prevent unreasonable combinations of courses.

Non-Academic Electives

Three terms of Physical Education or of courses in the Arts and Service Program are required of each Freshman, Sophomore, and Junior, as described on pages 81 and 98. These courses must be taken in addition to the 40 semester courses of academic work required for a degree.

Major Concentration

A student may elect to major in any one of the following departments: Astronomy, Biblical Literature, Biology, Chemistry, Classical Archaeology (Bryn Mawr College), Classics, Economics, Engineering, English, French, Geology (Bryn Mawr College), German, History, History of Art (Bryn Mawr College), Italian (Bryn Mawr College), Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology, Spanish.

Definite requirements are stated under the name of each department on pages 49-97. During the fourth semester of his attendance each student should confer with the Major Supervisor of the department in which he wishes to major, and apply to him for written approval of a program of courses for the last four semesters. Such a program must provide for the completion, by the end of the Senior year, of approximately twelve semester courses, or the equivalent, at least six of which must be in the Major Department and the others in closely related fields. Should the student's application be rejected by the department of his first choice, he must immediately apply in another. Failure to file with the Dean, before the date specified on the College Calendar, a copy of his Major Program signed by his Major Supervisor, will entail a fine of \$5. Any student who continues delinquent in this matter will be debarred from the final examinations in his fourth semester. Should the student's application be rejected by all the departments to which he applies, he will not be promoted.

A student who applies for permission to become a Major in any department may be rejected for *scholastic reasons only*. The College rule on this point is:

If, at the time specified for application, the average of the grades obtained by a student in the "preliminary courses"* of any department is 75 or above, the student will be accepted by that department.

If the average of the grades obtained in these courses is below 70, the student will be accepted in that department only under exceptional circumstances.

If the average of the grades obtained in these courses is 70 or above, but below 75, the decision will be at the discretion of the Major Supervisor.

A student who has been formally accepted as a Major by any department has the right to remain as a Major in that department as long as he is in College. Should he wish to change from one department to another after the beginning of his fifth semester, the change can be made only with the consent of the new Major Supervisor and the Dean.

Each Senior must take a special Major comprehensive examination (written, oral, or both) during the period scheduled for such examinations. The purpose of this examination is to promote the student's comprehension, integration and application of the knowledge acquired in the field of his major concentration, and to secure evidence of this achievement. The passing grade for this examination is 70. In case of failure, a candidate may, with the permission of his Major Supervisor, present himself for re-examination at a date (to be determined by the Major Supervisor) later than Commencement Day of the current year.

If the re-examination is taken one year later, during the regular period of Major examinations, there is no fee. But if the candidate applies for re-examination at an earlier date (involving the preparation of a special examination for one individual), and if the request is granted, the fee is \$25.

As special background for the comprehensive examination a senior shall engage in a period of study, technically called course 100, in his department of concentration during the semester preceding that examination. This period of study shall be counted as one of the five courses normally carried by the student during his final semester. Evaluation of the work in course 100 may

* "Preliminary courses" are any courses the student may already have taken in the department to which he is applying. If the applicant has not already taken any courses in that department, the department may name courses in other departments which are to be regarded as "preliminary."

be included in the grade earned by the student in his comprehensive examination.

In case of failure in the comprehensive examination a student does not necessarily repeat the term work of course 100, but follows the application procedure for re-examination as indicated on the preceding page. A student may not take more than two re-examinations in the field of his major concentration.

Students taking Majors under the supervision of Bryn Mawr College will note that their course 100 may extend over more than one semester; if this is the case, credit for two courses at Haverford will be granted if the work in each semester of this course is satisfactory.

Examinations in courses in the Major subject taken in the last semester of the Senior year may be omitted at the discretion of the Major Supervisor.

Courses taken in Summer School will not satisfy Haverford course requirements for the Major unless prior written approval is granted by the Major Supervisor.

A student who has demonstrated unusual maturity and who has special interests and abilities may be permitted to arrange an *interdepartmental major*. The program of courses, the nature of the 100 course, and the nature of the comprehensive examination for an interdepartmental major are to be worked out in advance (that is, when the major is selected) by the student, with permission of the Dean, in consultation with and subject to the approval of the chairmen of the departments concerned, one of whom will be designated as Major Supervisor for that student.

In rare cases, and only for high ranking students, a *double major* may be arranged, in which the student takes the complete major in each of two departments. In order to take a double major, a student must receive permission from the Dean as well as from the chairman of each of the departments concerned.

Freshman Program

Each Freshman, on entering the College, is assigned to a Faculty member as Adviser. Normally, the student keeps the same Adviser until he chooses a Major near the end of the Sophomore year, when the Chairman of the Major Department becomes his Adviser. Assignment of Advisers for incoming students is made by the Dean, on the basis of the best evidence available to him. If, after being assigned an Adviser by the Dean, the student finds another Faculty member whom he would prefer to have as Adviser, he is urged to inform the Dean of this preference, so that, if possible, the change can be made.

The Faculty Adviser is instructed to advise each of his freshmen advisees on a plan of study suited to his special needs; however, the faculty requires that English be taken throughout the year and strongly recommends that in all usual cases the remaining four courses be: one course in language, one course in the area of Social Science, one course in the area of Natural Science and Mathematics, and one additional course.

The courses open to Freshmen are numbered 11 to 19 in the section on Courses of Instruction. If he is qualified, a Freshman may be permitted by the department concerned and by the Dean to take more advanced courses.

A series of standard tests is administered to all entrants within the first few days of the first semester. These tests are helpful in guidance and counseling. One function of the tests is to determine which Freshmen should be recommended to take the voluntary course in Developmental Reading, which is offered each term, for no credit, to students who feel the need of establishing reading habits that will improve their comprehension and increase their speed in reading.

Each Freshman's capacity for oral expression is tested early in the academic year, and further training in speech is given to those who need it, as well as to any others who may request it.

Preparation for Professions

A large number of Haverford College students plan, after graduation, to enter upon further courses of study. As a liberal arts college, Haverford arranges its curriculum so that students who have such plans are able to meet the entrance requirements of graduate and professional schools. The College does not, however, attempt to anticipate in its own curriculum the work of any graduate or professional school. It is the conviction of the Faculty that the best preparation for graduate work is a liberal education, with sound training in basic disciplines, to which more specialized training may later be added.

A student who intends to go to a professional school is free to choose his major in accord with his principal abilities and interests, since professional schools, such as those of business administration, education, law, medicine, or theology, usually accept students on the basis of merit regardless of their choice of major and, except in the case of medical schools, without specific course requirements. The requirements of most state boards of medical licensure are such that all students who hope to be admitted to a medical school must take two semester courses, each of which must include laboratory work, in biology (usually Biology 12 and 21), Chemistry 13, 14, 25, and 26, and Physics 13, 14.

Students who plan to go to professional schools should seek advice as early as possible from appropriate Faculty members as follows: business administration, Mr. Teaf; education, Mr. Rose; engineering, Mr. Holmes; law, Mr. Somers; medicine, Mr. W. Cadbury; theology, Mr. Horn or Mr. Steere.

If a student plans to do graduate work in a departmental subject, such as engineering, mathematics, history, etc., he should consult as early as possible with the chairman of the department at Haverford which most nearly corresponds to the department in which he plans to work in graduate school. This adviser will be able to guide him in his selection of courses, his choice of Major (which will not *necessarily* be in the department of his intended graduate study), and other questions which may have bearing on his future.

Law schools, medical schools, and some graduate schools require applicants to take special admission tests. Arrangements for taking these tests are the responsibility of the student concerned; he can obtain information about them from the Faculty members mentioned above.

Regulations

Conflicting Courses

A student is not allowed to elect conflicting courses, except with the permission of the Dean and the two instructors concerned.

Additional Courses

Although the normal load is five courses each semester, a student who desires to do so may take additional work upon approval of his adviser and the Dean. Such approval will not normally be granted to Freshmen, but will usually be granted to a Sophomore, Junior, or Senior who requests it, if his average for the preceding semester was 80 or above. There is no charge for a sixth course taken by a student in full standing, but a fee of \$40.00 is charged for a sixth course taken to make up a deficiency.

Audited Courses

A student who wishes to audit a course should obtain the permission of the instructor. No charge is made for auditing.

Course Changes

Courses may be changed during the first week of each new semester. During that time students are free to make changes after consultation with their Advisers and the Dean.

Changes will not be permitted later except in cases where the student is known to be an excellent student and where he receives the consent of the professor to whose course he is changing and of his Adviser and of the Dean.

Special Cases

Whenever a student gives proof of special abilities, the College is prepared to lay aside such requirements of the normal program as stand between him and the development of his gifts.

The Committee on Academic Standing is empowered to act on requests for exceptions to any of the academic regulations.

Evaluation of Academic Performance

The instructor in each course submits at the end of each semester a numerical grade for each student. These grades may range from 0 to 100, the minimum passing grade for each course being 60. The grades obtained by each student are averaged together to give evidence of his overall performance during that semester.

The Committee on Academic Standing reviews students' records at intervals, and has authority to drop students from college, or to set requirements for additional work in cases of students whose work is unsatisfactory. As a rule, the Committee will drop from college Freshmen who do not receive the required minimum average of 60, Sophomores whose averages are below 65, and Juniors and Seniors whose averages are below 70. However, any student whose record is such as to justify the belief that he is not availing himself of the opportunities offered by the College may be dropped.

A student who, because of special circumstances such as illness, receives a low grade in a course, may petition his instructor and the Dean for a special examination. If the request is granted, and the student takes the special examination, the grade in that examination will replace the grade originally received in the mid-year or final examination in computing the final grade for that course; the new course grade will be entered in place of the old on the student's transcript, and the semester average will be revised accordingly.

In some circumstances a student may be permitted by the Dean to drop a course, or to take less than the normal load, and thus does not receive grades for the full five courses. The Committee on Academic Standing will review all such cases, and will specify what work the student must perform to be restored to full standing. Similarly, in the case of a student who wishes to accelerate, this Committee will specify conditions under which credit for an extra semester's or year's work will be granted.

Intercollegiate Cooperation

Because of the cooperative relationship between Bryn Mawr College, Haverford College, Swarthmore College, and the University of Pennsylvania, full-time students of any of these four institutions may, upon presentation of the proper credentials, enroll for courses in another institution of the group without additional expense.

Students desiring to take advantage of this arrangement must obtain the permission of the Dean. Permission is granted only if the equivalent of the course in question is not offered at Haverford, and there is no conflict with required appointments at Haverford. This permission is not granted to Freshmen, and is not usually granted to a student whose general average for the preceding semester has been less than 80. Exceptions may be made in case the course at the other institution is necessary for the student's Major. It is the student's responsibility to register in the selected course on registration day at the institution where the course is to be given. The course should also be entered on his registration card at Haverford.

Junior Year Abroad

Well-qualified students who request it may be granted permission to spend the Junior Year studying in a foreign country. Such permission will require approval of the student's Major Supervisor and the Dean. If the student is not a language Major, approval will also be required of the Chairman of the Department of the Language spoken in the country selected. Interested students should consult the Dean early in the Sophomore year; he will direct them to Faculty members best qualified to advise them. The program of studies must be worked out in advance; if the program is completed successfully, the College will grant credit toward the degree for the work of the Junior year. Scholarship funds may be transferred for approved study abroad.

Visitors and Lectures

Individual departments of the Faculty invite visitors to Haverford for varying periods of time to meet with members of the department and with students interested in that field. These departmental visitors, who sometimes give public lectures, contribute considerably to the vitality of the work in the various departments.

This program has been greatly strengthened as a result of a generous bequest from the late William P. Philips. A substantial sum from this bequest

is used to bring to Haverford "distinguished scientists and statesmen," whose visits may last anywhere from a few hours to a full academic year. On page 14 of this catalog is a list of the visitors brought to the campus under this bequest during the academic year 1958-1959.

The Haverford Library Lectures and the Shipley Lectures, both endowed lectureships, provide annual speakers. The endowment for the former, a gift from the estate of Mary Farnum Brown, is available "for an annual course or series of lectures before the Senior Class of the College, and other students, on the Bible, its history and literature, and as a way may open for it, upon its doctrine and its teaching." The fund for the latter was presented by Samuel R. Shipley, in memory of his father, Thomas Shipley. The income from the Shipley fund is used "for lectures on English literature." At the weekly Collection meetings of the whole College prominent visitors talk to the student body on subjects of current interest.

The Class of 1898 Lectureship was established by that class in 1948.

Graduate Study

Admission to Candidacy for Master's Degree

GRADUATES OF INSTITUTIONS of standing equivalent to that of Haverford College, who present satisfactory evidence of character, seriousness of purpose, and scholarly attainments, may be admitted as candidates for the degree of Master of Arts or Master of Science. The number of graduate students to be admitted each year will be determined by the Administration, in view of the situation obtaining in the College and in individual departments in that year. A candidate for the graduate degree must show competence in one language besides English. Each applicant will be advised, on request, of the language requirements to be met in the particular department in which he wishes to carry out his specialized study.

Applications, together with transcripts, should reach the Director of Admissions not later than May 1. Scholarship aid, financed by the T. Wistar Brown Fund, is available for qualified graduate students.

Charges.—For charges and fees see pp. 27-28.

Requirements

A candidate is required to pass four full-year advanced courses or their equivalent,* each with a grade of not less than 80, and to do satisfactory

* In a full-year course, the course grade is the average of the two semester grades; in other cases each semester's work is a separate course, for the purpose of this requirement.

additional intensive work, which may take the form of a thesis or other research, equivalent to a full course. At least two of the courses and the additional intensive work must be in the special field chosen by the candidate, and the remaining courses in allied subjects. In addition, the candidate may be required, at the discretion of the professor in charge, to pass a comprehensive examination upon the field of his special study. The scope of the examination will be determined by the professor in charge, and will be communicated to the candidate when he is admitted as a graduate student. The entire plan of study must be drawn up by the candidate in consultation with the professor under whom he proposes to do the major part of his work. This plan must be submitted for approval before October 1 to the Chairman of the Committee on Graduate Program. After approval by this Committee, the program must be filed with the Registrar. In cases where a thesis is required, the candidate must deposit two copies of his thesis in the College Library at least two weeks before Commencement.

A minimum of one year's residence is required, and a candidate, if well prepared, should be able to complete his work for the degree in this time. If his preparation is inadequate, a longer period of residence may be necessary, but the required work must be completed in not more than two academic years. Courses taken before the registration of the candidate as a graduate student at Haverford College will not usually be counted toward the degree.

Candidates who engage in any occupation or employment other than graduate study will not generally be able to satisfy the requirements for the degree in one year.

COURSES OF INSTRUCTION

THE NUMBERING SYSTEM used in this catalog involves a two-digit number for each semester course. Courses numbered from 11 through 19, primarily Freshmen courses, are open to all students; courses numbered from 20 through 30 are open to Sophomores, Juniors and Seniors; courses numbered from 31 through 60 are open to Juniors and Seniors; courses numbered from 61 through 80 are open only to Seniors; courses numbered from 81 through 89 are project courses open to Seniors and, in exceptional circumstances, to Juniors; in each department the course in preparation for the comprehensive examination is numbered 100.

When two course numbers, followed by a single description, are joined by a hyphen, the course is a year course; a student who takes the first semester of such a course must normally take the second semester. When two course numbers followed by a single description are separated by a comma, the first semester may be taken without the second, though the two are normally taken together as a year course. In either case, the first semester course is prerequisite to the second.

Unless further designated with an *a* (first semester) or a *b* (second semester), courses with uneven numbers are given in the first semester; those with even numbers in the second.

Where a course is listed as a prerequisite for another course, a grade of 65 or better will be required in the prerequisite course, unless otherwise specified; in exceptional circumstances, however, the instructor may waive this requirement at his discretion.

Each course carries three semester hours credit, and is offered annually, unless otherwise specified.

Astronomy

PROFESSOR LOUIS C. GREEN, *Chairman*

THE DEPARTMENTAL WORK is designed to give students an understanding of and an interest in the universe in which they live. At all times in the course work the relation of astronomy to the other fields of learning is kept to the fore. The courses progress from the elementary, through courses requiring more mathematical and physical background, to the strictly logical and critical development of a limited problem.

Major Requirements

Astronomy 11, 12, 45, 46, 81, 82, and 100; Mathematics 11, 16, 21, 22; Physics 13, 14, 28.

Three written comprehensive examinations of three hours each.

11, 12. DESCRIPTIVE ASTRONOMY—*Four hours, including one laboratory period a week.* Mr. Green.

Our knowledge of the motions, composition, organization, and evolution of the solar system, stars, and galaxies is presented, together with explanations of the methods by which this information is obtained. The laboratory work consists of visual, photographic, and spectroscopic observations of the sun, moon, planets, stars, and nebulae. Prerequisite to *Astronomy 12* is *Astronomy 11* or consent of the instructor.

21, 22. READING COURSE IN STELLAR ASTRONOMY—Mr. Green.

Systematic reading in stellar astronomy from an established list of recent books and research articles. This course may be begun in either semester. Prerequisite: *Astronomy 11, 12.*

Not offered in 1959-60.

45. ASTROPHYSICS—Mr. Green.

An introduction to spectroscopy, quantum mechanics, and statistical mechanics leads to the study of ionic and molecular equilibria in the atmosphere of the stars, in the diffuse nebulae, and in interstellar space. Prerequisite: *Physics 28* and *Mathematics 21, 22*; Junior or Senior standing.

Offered in 1960-61 and alternate years.

46. ASTROPHYSICS—Mr. Green.

The transfer of radiation in stellar atmosphere, the internal constitution of the stars, and the sources of stellar energy. Prerequisite: *Physics 28* and *Mathematics 21, 22*; Junior or Senior standing.

Offered in 1960-61 and alternate years.

81, 82. SPECIAL TOPICS IN ASTROPHYSICS—Mr. Green.

The content of this course may vary from year to year to suit the needs of advanced students. It may be repeated for credit. Prerequisite: Considerable maturity in Mathematics, Physics, and Astronomy. Senior standing.

Offered in 1959-60.

Biblical Literature

ASSISTANT PROFESSOR ROBERT L. HORN, *Chairman*

THE COURSES IN THIS DEPARTMENT are designed to acquaint the student with the Judeo-Christian background of Western civilization, to examine the role played by this tradition in Western life and thought from the biblical period to the present day, and to offer an introductory examination of the major religious traditions of East and West.

Courses in the department follow a three-stage sequence:

- 1) A one-year course (11, 12) dealing with the literature of the Bible, its historical context and the theological content of the biblical books.
- 2a) A series of three one-semester courses covering the history of Christian thought from the early Church to the present day (21, 22, 31).
- 2b) A one-year course in the History of Religions (23, 24), designed to acquaint the student with the major religious traditions of East and West.
- 3) Project courses (81, 82) in one of the following fields, Bible, History of Christian Thought, History of Religions, chosen with the consent of the instructor.

Major Requirements

Biblical Literature 11, 12; two from 21, 22, 31; 23, 24; 81 or 82, and 100.

Philosophy 21-22 and four other semester courses in related departments chosen with the consent of the adviser.

Special study of a selected field chosen from 1) Bible, 2) Early Christian thought, 3) Medieval and Reformation Religious thought, 4) Modern Jewish and Christian thought; election of related courses in other departments to supplement this study; a thesis in the area chosen for special study, to be written in connection with Biblical Literature 81 or 82.

Comprehensive examinations of three hours each covering two fields chosen from the above and History of Religions, but exclusive of the field of the thesis.

11, 12. INTRODUCTION TO THE BIBLE—Mr. Horn

An examination of the literature of the Bible, its historical context and its theological content. In the first semester the Old Testament is studied. Problems concerning the nature of biblical authority and methods of interpreting the Bible are raised. The second semester deals with the books of the New Testament and the growth of the early Church. Extensive reading in the Bible; lectures and discussion; frequent examinations.

21. EARLY CHRISTIAN THOUGHT—Mr. Horn

The development of Christian thought from the end of the first century to the fall of the Roman Empire. Extensive reading of primary sources; lectures and discussion; frequent papers and a final examination. Prerequisite: *Biblical Literature 11 or 12; Philosophy 11 or 21-22* (21-22 may be taken concurrently).

Offered in 1959-60 and alternate years.

22. **MEDIEVAL AND REFORMATION RELIGIOUS THOUGHT**—Mr. Horn
Examination of the major theological systems of the Middle Ages; background and development of Reformation thought. Extensive reading in primary sources; lectures and discussion; frequent papers and final examination. Prerequisite: *Biblical Literature 21* or permission of instructor.
Offered in 1959-60 and alternate years.
- 23, 24. **HISTORY OF RELIGIONS**—Mr. Horn
A survey course examining the major religious traditions of East and West. The first semester begins with a brief study of primitive religions and an examination of the major concepts employed in the study of religion. Study of the religions of India: Hinduism, Buddhism, Jainism, Sikhism. In the second semester the religions of the Far East and Near East are studied: Taoism, Confucianism, Shinto; Zoroastrianism, Islam. Lectures and discussion, report papers, final examination. Prerequisite: *Biblical Literature 11* or *12* and permission of the instructor.
Offered in 1960-61 and alternate years.
31. **MODERN JEWISH AND CHRISTIAN THOUGHT**—Mr. Horn
A study of the development of Jewish and Christian thought in the period from the Renaissance to the present day. Special attention is given to problems raised by scientific approaches to the study of religion. An historical examination of the sources of contemporary theology will be made, and selected works of contemporary theologians will be read. Occasional lectures; discussion; frequent papers and final examination. Prerequisite: *Biblical Literature 11* or *12* and permission of instructor.
Offered in 1960-61 and alternate years.
- 81, 82. **PROJECT COURSES**—Mr. Horn
Individual work elected by the student from the areas of Bible, History of Jewish and Christian Thought, History of Religions. Limited to six students, with priority to senior majors. Prerequisite: *Biblical Literature 11* or *12* and one course above elementary level.

Biology

ASSOCIATE PROFESSOR ARIEL G. LOEWY, *Chairman*

ASSISTANT PROFESSOR MELVIN SANTER

ASSISTANT PROFESSOR IRVING FINGER

THE BIOLOGY program is designed to give a solid foundation in general biological principles, an insight into recent developments of experimental aspects of the field, and an opportunity for a research experience in the senior year.

The courses are built up in a sequence of three stages.

- 1) Four introductory courses to be taken at the freshman and sophomore level which cover biological principles (13, 21) and biological diversity (12, 14).
- 2) Six advanced courses (31, 32, 33, 35, 37, 38) to be taken at the junior

or senior level designed to create sufficient competence for research in the senior year.

- 3) Three Senior Research Tutorials (61-62, 63-64, 65-66) involving reading of current literature, laboratory research, student lectures and seminars, and a senior thesis. The topics of these research tutorials lie in the areas of principal interest of the instructors.

Major Requirements

Biology 12, 13, 21, 31, 32, either 33 or 38, either 61-62 or 63-64 or 65-66, 100; Chemistry 13, 14, 25. Where prerequisites are required for these courses, the student must achieve a grade of at least 70, unless otherwise stated, or receive the consent of the instructor to apply them as prerequisites.

The Department strongly recommends the following additional courses since they provide a minimum theoretical background for advanced work in Biology: Mathematics 11, 16, Physics 13, 14, Chemistry 26, 31, 32.

Biology 100 consists of a series of seminars given by students and designed to tie together the work done in the three Senior Research Tutorials, and a written comprehensive examination at the end of the senior year.

12. THE ANIMAL KINGDOM—*Four hours, including one laboratory period a week.*
Mr. Finger.

A study of the evolution of structure and function in the animal kingdom. Emphasis is also placed on contributions to general biological principles derived from experiments performed with representative species from the various phyla. One-third of the course is devoted to embryology.

13. ORGANISMS IN TIME AND SPACE—Mr. Loewy.

An introductory course dealing with the phenomenon of biological adaptation. It includes an elementary treatment of the principles of heredity and their application to population dynamics through time (evolution) and space (ecology).

14. THE PLANT KINGDOM—*Three hours. Two class periods and one laboratory period a week.*

A study of evolutionary development in the plant kingdom and of the structure and function of the higher plants. Advanced students can do additional work in plant physiology.

21. PHYSICAL BASIS OF LIFE—*Four hours, including one laboratory period a week.*
Mr. Loewy and Mr. Santer

An introductory course in the areas of cell biology conventionally denoted as Physiology, Biochemistry, and Biophysics. The course will attempt to give insight into the methods and subject matter of the physical-chemical approach to the study of living systems. This is a sophomore course; students who wish to postpone it to the junior year should obtain permission of the instructors at the end of the freshman year.

Prerequisite: *Chemistry 13, 14, or consent of the instructor.*

31, 32. MICROBIOLOGY—*Four hours, including one laboratory period a week.*

Mr. Santer.

A course dealing with the microbial worlds of bacteria, viruses, fungi and algae. The lectures will define these various groups and describe how they carry on their life processes. Great emphasis will be placed on biochemical studies which have helped to elucidate (1) pathways of substrate metabolism, (2) biosynthetic capabilities, (3) methods of reproduction. In the laboratory the student will learn the techniques of culturing and recognizing various microorganisms and will study bacterial metabolism.

Prerequisite: *Biology 21; Chemistry 25* must be taken previously or concurrently.

33. GENETICS—*Four hours, including one laboratory period a week.*

Mr. Finger.

A consideration of hereditary mechanisms insuring regularity within the framework of diversity among living forms. Lectures will cover the contributions of the nucleus, cytoplasm, and environment to the development of a character and will be supplemented by laboratory experiments with the fruit fly, corn, and microorganisms.

Prerequisite: *Biology 13*. It is recommended that *Biology 31, 32* be taken concurrently.

35. READING COURSE IN EVOLUTIONARY THEORY—Mr. Finger.

The purpose of this course is to enable the student to acquaint himself with evolutionary theory, both current and past, by reading advanced textbooks, reviews and scientific journals.

Prerequisite: *Biology 33* and consent of the instructor.

37. EMBRYOLOGY—*Four hours, including one laboratory period a week.* Mr. Finger.

A study of the development of animal structure. Lectures and laboratory will deal mainly with the contributions of experimental embryology to an understanding of the mechanisms leading to cellular and organ differentiation.

Prerequisite: *Biology 12*. Not offered in 1959-60.

38. CELLULAR PHYSIOLOGY—Mr. Loewy.

The purpose of this course is to develop a theoretical basis for the study of some integrated cell functions (osmotic, electrical and contractile work). Emphasis is placed on the physics and chemistry of proteins and nucleic acids and the sub-microscopic structure of the cell.

Prerequisite: *Biology 21, Physics 13, 14* to be taken previously or concurrently.

61-62. SENIOR RESEARCH TUTORIAL IN COMPARATIVE BIOCHEMISTRY—

Mr. Santer.

Individual student research on various aspects of microbial metabolism. Present projects are concerned with the metabolism of chemosynthetic microorganisms. Laboratory work is supplemented with readings, written reports and seminars on advanced topics in microbiology and biochemistry.

Prerequisite: *Biology 31, 32*.

63-64. SENIOR RESEARCH TUTORIAL IN CELLULAR ARCHITECTURE—Mr.

Loewy.

Readings from current textbooks and periodicals on structural aspects of proteins,

nucleoproteins, cellular particulates and cells. Considerable emphasis is placed on techniques by which fine structure can be studied. Research in an area relating protein chemistry to cellular fine structure and cellular function. Student lectures on readings and research.

Prerequisite: *Biology 38*.

65-66. SENIOR RESEARCH TUTORIAL IN PHYSIOLOGICAL GENETICS—
Mr. Finger.

Experiments will deal mainly with approaches to the problem of the interaction of genes and non-genic elements in determining cellular function. The experimental work will be carried out with microorganisms, especially protozoa, and experience will be gained in experimental design, culture and handling of small organisms, immunological techniques, and fractionation of cell particulates.

Prerequisite: *Biology 33* or permission of the instructor.

81, 82. PROJECT COURSES—Mr. Finger, Mr. Loewy and Mr. Santer.

Open only by permission of instructor.

Chemistry

PROFESSOR RUSSELL R. WILLIAMS, JR., *Chairman*

PROFESSOR WILLIAM E. CADBURY, JR.

ASSOCIATE PROFESSOR ROBERT I. WALTER

ASSISTANT PROFESSOR HARMON C. DUNATHAN

ASSISTANT PROFESSOR COLIN F. MACKAY

THE SEQUENCE of courses in chemistry affords a developing knowledge of chemistry as a rational science, culminating in the exploration of a frontier of scientific knowledge. Fundamental principles and their application to the solution of scientific problems are stressed throughout and illustrated in laboratory work. The first course is designed to give a broad view of the principal concepts, methods and areas of application of the science of chemistry and is therefore well suited to provide experience in science to those primarily interested in other fields. At the same time this course provides the general preparation required for subsequent courses in the areas of inorganic, organic, analytical and physical chemistry. The course program provides full preparation for professional work in chemistry and offers the opportunity for direct contact with research work in the senior year.

A Major in chemistry who intends to undertake graduate study in the field should include in his program courses 34, 63 and 66, together with German 13-14 and Mathematics 21, 22. This is in accord with the level of accomplishment recommended by the American Chemical Society. For the courses in chemistry needed for premedical preparation, see page 41.

Major Requirements

Chemistry 13, 14, 23, 24, 25, 26, 31, 32, one additional advanced course, and 100.

Physics 13, 14, Math. 11, 16.

The comprehensive examination will cover the general field of the chemistry courses listed above.

Students who are considered qualified to become candidates for Final Honors will be invited to do so in the second semester of the Junior year. Honors work will include independent reading, project courses, and superior performance in Chemistry 100.

13, 14. GENERAL CHEMISTRY—*Four hours, including one laboratory period a week.*

Department staff.

A study of chemical principles, beginning with the laws of chemical combination and proceeding with detailed interpretation of chemical behavior in terms of the electronic structures of atoms and molecules. Topics covered in the first semester will include: modern theory of atomic structure and its relation to the periodic system of elements, types of chemical bonds with emphasis on ionic compounds, oxidation and reduction, acids and bases, chemical equilibrium. Topics covered in the second semester will include: the nature and properties of the covalent bond, the concepts of structure, isomerism, and functional group, and a survey of the chemistry of some representative covalent compounds of various elements.

A special section of this course is available for students with above average aptitude for and preparation in science. Various special topics will be covered in addition to those mentioned above. Assignment to this section is at the discretion of the Department.

23, 24. INORGANIC AND ANALYTICAL CHEMISTRY—*Four hours. Two class periods and two laboratory periods a week.* Mr. MacKay.

A study of the principles, methods and factual matter of inorganic and analytical chemistry. The lectures deal with electrolyte solutions, ionic equilibria and systematic inorganic chemistry. Laboratory work will include qualitative and quantitative analysis. Prerequisite: *A grade of 70 or higher in Chemistry 14, or consent of the instructor.*

25, 26. ORGANIC CHEMISTRY—*Four hours, including one laboratory period a week.* Mr. Walter and Mr. Dunathan.

A survey of the chemistry of the functional groups common in organic compounds and of the elementary theoretical basis of organic chemistry. Prerequisite: *A grade of 70 or higher in Chemistry 14, or consent of the instructor.*

31, 32. PHYSICAL CHEMISTRY—Mr. Williams and Mr. Cadbury.

A study of the physico-chemical properties of matter, the first and second laws of thermodynamics, homogeneous and heterogeneous physical and chemical equilibrium, electrochemistry and chemical kinetics. Prerequisites: *Chemistry 23, Physics 13, 14, Math. 11, 16.*

34. PHYSICAL CHEMISTRY LABORATORY—*Three hours. Two laboratory periods and one lecture each week.* Mr. Williams.

Laboratory exercises in physical chemistry in the areas of thermodynamics, electrochemistry, and kinetics. Lectures on the treatment of experimental data. Prerequisite: *Chemistry 31 and 32 (may be taken concurrently).*

61. **ADVANCED PHYSICAL CHEMISTRY**—Mr. MacKay.
Lectures on various topics in modern physical chemistry, including atomic and molecular structure, kinetics, and nuclear chemistry. Prerequisite: *Chemistry 32*.
63. **QUALITATIVE ORGANIC ANALYSIS**—*Four hours. Three laboratory periods and one lecture each week.* Mr. Dunathan.
Further development of the principles of organic reactions, and practice in their application to experimental identification of organic compounds. Prerequisite: *Chemistry 26*.
64. **ADVANCED ORGANIC CHEMISTRY**—Mr. Walter.
Selected topics from the fields of stereochemistry, reaction mechanisms and the structure and biosynthesis of natural products. Prerequisite: *Chemistry 26*.
66. **ADVANCED INSTRUMENTAL METHODS**.—*Four hours. Two lectures and two laboratory periods a week.* Mr. Williams.
Experimental problems in physical and analytical chemistry, including optical, electro-chemical and other instrumental techniques. Prerequisite: *Chemistry 34*.
- 81 and 82. **CHEMICAL RESEARCH**—Staff.
Special projects in chemical research. May be taken only with consent of the staff. Expected of Honors candidates.

Classics

PROFESSOR HOWARD COMFORT, *Chairman*

ASSISTANT PROFESSOR GEORGE A. KENNEDY

THE CLASSICS DEPARTMENT offers instruction in the language, literature and civilization of the Greek and Roman peoples. Knowledge of the Classics is fundamental to an understanding and proper use of the English and Romance languages, familiarity with the Classics is an indispensable background for the Western European literary tradition, and the history and civilization of Greece and Rome provide an explanation of, and parallels to, many pressing contemporary political, economic, social and religious problems.

Principal emphasis is laid upon meeting the Greek and Roman legacy through the medium of the original languages, but courses in Classical Civilization offer opportunities to study ancient history and literature in English translation.

Two major programs offer students an opportunity either to specialize in the ancient world or to follow the Classical Tradition into its modern manifestations.

Major Requirements

Two major programs are available in this department:

A. Classics Major: six full year courses divided between Greek and Latin, of which Classics 61, 62 or 81, 82 must be one; Classics 100; a written comprehensive examination. Candidates for Final Honors must also pass an oral examination.

B. Classics and the Classical Traditional Major: approval of a specific program involving the study of at least one ancient language and one modern field; four full year courses in Greek or Latin; four semester courses on the related field in other departments; a thesis, ordinarily written in connection with Classics 81, 82; Classics 100; a written comprehensive examination.

Courses in Greek Language and Literature

11-12. ELEMENTARY GREEK—Mr. Kennedy.

Thorough study of the elements of the language followed by reading in a number of ancient Greek authors.

21, 22. INTRODUCTION TO GREEK LITERATURE—Mr. Kennedy.

Extensive reading in Homer, lyric poetry, Euripides, and Plato with lectures and reports on the history and chief features of Greek literature. Prerequisite: *Classics 11-12* or the equivalent.

31, 32. GREEK LITERATURE IN THE FIFTH CENTURY—Mr. Kennedy.

Study of Aeschylus, Sophocles, Herodotus and Thucydides or of other Greek authors as dictated by the needs of the students enrolled. Prerequisite: *Classics 21* or *22* or the equivalent.

61, 62. GREEK LITERATURE IN THE FOURTH CENTURY AND LATER—
Mr. Kennedy.

Study of Demosthenes, Aristotle, and other authors as dictated by the needs of the students enrolled. Students majoring in Classics will be afforded opportunities to practice Greek composition. May be repeated for credit with change of content. Prerequisite: *Classics 31* or *32* or the equivalent.

Courses in Latin Language and Literature

13-14. ELEMENTARY LATIN—Mr. H. Comfort.

Basic instruction in Latin declension and conjugation; then Cicero's *First Oration Against Catiline*, nearly all the poems of Catullus, and selected Letters of Pliny.

15, 16. LATIN LITERATURE—Mr. H. Comfort.

Review of grammar and vocabulary; reading in Vergil and/or Cicero. Prerequisite: *Classics 13-14* or two or three years of preparatory Latin.

17, 18. LATIN LITERATURE—Mr. H. Comfort.

Reading of Roman comedy and of authors of the Republic and Augustan Age. Prerequisite: *Classics 15, 16* or four years of preparatory Latin.

23, 24. INDIVIDUAL TOPICS IN LATIN LITERATURE—Messrs. H. Comfort and Kennedy.

Systematic study of one or more aspects of Latin literature and Roman life. Prerequisites at the discretion of the instructor.

81, 82. PROJECTS IN CLASSICS. Messrs. H. Comfort and Kennedy.

Prerequisites at the discretion of the instructor.

Courses in Classical Civilization not requiring the use of Greek or Latin

- 27-28. CLASSICAL CIVILIZATION: HISTORY AND LITERATURE—Messrs. H. Comfort and Kennedy.
(Also called *History* 27-28.)
Study of the significant events and trends of ancient history and of the chief works of Greek and Latin literature in English translation.
Offered in 1960-61 and alternate years.
29. SEMINAR IN GREEK CIVILIZATION — Messrs. H. Comfort and Kennedy.
(Also called *History* 29.)
Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history.
Offered in 1959-60 and alternate years. Topic for 1959-60: The Fifth Century B.C.
30. SEMINAR IN ROMAN CIVILIZATION—Messrs. H. Comfort and Kennedy.
(Also called *History* 30.)
Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history.
Offered in 1959-60 and alternate years. Topic for 1959-60: The First Century B.C.

Economics

PROFESSOR HOWARD M. TEAF, *Chairman*
VISITING PROFESSOR ALVIN H. HANSEN
ASSOCIATE PROFESSOR HOLLAND HUNTER
ASSISTANT PROFESSOR WILL LYONS

THE WORK in Economics is intended primarily to develop in students an understanding of the working of modern economic society, to give practice in the interpretation of economic data, to arouse an informed interest in public affairs, and to lay the basis for the formation of intelligent judgments in the field of economic policy. The introductory courses, Economics 11 and 12, are designed to give the basic understanding of economic processes and of economic organization that should be part of a liberal education. The advanced courses also are offered as part of a program of liberal education, but are designed to meet, at the same time, the needs of men going on to graduate work in economics or business administration or directly into business. Several of the advanced courses should be of special value to men planning to enter the fields of law, journalism, the foreign service, or other government work. In the advanced courses emphasis is placed on the use of source materials and

on research methods in economics, and students gain experience in the preparation of analyses and reports.

In Economics 81 and 82 there is wide latitude with respect both to subject matter and to course method. The specific subjects in each will vary from year to year, depending on the interests and capacities of the students.

Men expecting to major in Economics are advised to take, in the Freshman year, Economics 11 and 12, Mathematics 11 and either Mathematics 14 or 16. (Mathematics 16 is recommended for those who think they may go on into graduate work in economics or business administration.)

Major Requirements

Economics 11, 12, 23, 24, 31, 32, 81 or 82, and 100; and two other semester courses in Economics. Economics 100 consists of a study of a major problem in a way that calls upon each student's background in other courses and, in so far as is possible, integrates the study of economics with related social sciences.

Mathematics 11 and three other approved semester courses in the social sciences or mathematics.

A comprehensive examination which normally includes a written examination, an oral examination, and the preparation of a research memorandum.

11. ECONOMIC GROWTH AND WELFARE IN A FREE SOCIETY—Mr. Teaf and Mr. Lyons.

A study of the main features of modern economic life in the United States, including the resource base and technological setting, the institutions, organization, and the functioning of capitalism. Emphasis is placed on the problem of economic stability and the relation thereto of national income, the banking system, inflation, the public debt, and government policy.

12. THE PRICE SYSTEM IN OPERATION—Mr. Teaf, Mr. Hunter and Mr. Lyons.

A study of the manner and extent to which the basic economic questions of what is to be produced, how it is to be produced, and for whom it is to be produced are solved by the pricing system. Special emphasis is placed on current operation of the price system in agriculture, industry, public utilities, and international trade; on control of prices through monopoly or government action; and on how these basic economic problems are solved under economic systems different from that of the United States.

Economics 11 and 12 together present the basic elements for an understanding of current economic problems. Students who are planning further work in economics or other social sciences are encouraged to take both courses.

23. ACCOUNTING—Mr. Teaf.

A study of the fundamentals of accounting and their application to current economic problems and issues of public policy, elementary theory and the methods of accumulating and reporting accounting data; problems of accounting measurement in a dynamic economy when prices are changing; the uses of accounting data in managerial decision-making. Prerequisite: *Economics 11 and 12*, or permission of instructor.

24. **ECONOMIC DECISION THEORY—Mr. Lyons.**
An introduction to economic decision-making processes and their effects on growth. The topics examined include: the theory of production and distribution, input-output analysis, linear programming, game theory. Prerequisites: Economics 11, 12, and Mathematics 11.
31. **MONEY, BANKING, AND ECONOMIC STABILITY—Mr. Lyons.**
A study of the theoretical framework necessary for understanding economic instability and of the monetary means available in the United States for the promotion of a stable level of activity. The course is divided into five central parts; an analysis of the circular flow of payments and the determination of the level of income, with special reference to the role of money; money and banking processes and determinants of the money supply as a basis for policy; Federal Reserve and debt management policy; the meshing of national monetary systems; and monetary panaceas and monetary reform. Prerequisite: *Economics 11*.
32. **GOVERNMENT FINANCE—Mr. Lyons.**
An analysis of major issues in the field of government revenues and expenditures. Topics considered include standards for government expenditures, principles of equity in taxation, fiscal policy for stability and growth, political and economic problems in the implementation of public policy. Prerequisite: *Economics 11 and 12*.
33. **POPULATION POLICIES AND PROBLEMS—Mr. Reid.**
(See *Sociology 33*.)
34. **SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.**
(See *Political Science 34*.)
36. **LABOR ECONOMICS AND LABOR RELATIONS—Mr. Teaf.**
(Also called *Sociology 36*.)
A study of the fundamentals of the employer-employee relationship, such as wages, hours, security; the functioning of labor organizations and government; the purposes and methods of collective bargaining. Special emphasis is placed on methods of resolving industrial conflict. Prerequisite: *Economics 11 and 12*, or permission of instructor.
37. **THE CORPORATION—Mr. Lyons.**
An analysis of the economic and legal organization of modern corporations; their relation to security holders and securities markets; statutory regulation of their financial activities; economic aspects of internal decision-making problems; and evaluation of their impact on modern society. Prerequisite: *Economics 23*. Offered in 1959-60 and alternate years.
39. **GOVERNMENT AND BUSINESS**
(Also called *Political Science 39*.)
An analysis of industrial market organization and government regulation of market practices. The history of anti-trust policy is reviewed and selected recent cases are discussed. Other topics include trade associations, cartels, basing-point pricing, and governmental price control. Opposing views on proper public policy are discussed and evaluated. Prerequisite: *Economics 12*. Offered in 1960-61 and alternate years.

41b. THE SOVIET SYSTEM—Mr. Hunter.

(Also called *Political Science 41b.*)

An analysis of the Soviet record as a case study in rapid industrialization. The evolution of major political, economic, and social institutions is reviewed; attention is given to trends and prospects. The topics examined include: the background of the 1917 Revolutions; the rise of Stalin and evolution of total government; forced industrialization and agricultural collectivization; stabilization of Soviet social organization; factors explaining wartime survival and postwar growth; evaluation of trends since 1953. Prerequisite: Four semester courses in the social sciences, or permission of the instructor.

42. THE ECONOMICS OF DEVELOPMENT—Mr. Teaf.

An examination of the process of economic growth, especially the industrialization of partially developed or underdeveloped areas. Particular attention will be paid to problems of capital formation, to the influence of different social and political systems upon development, to the problems posed by differences in cultures, and to international cooperation. Prerequisite: *Economics 11, 12*, and two other courses in Political Science or Sociology, or permission of the instructor.

53, 54. INTERNATIONAL RELATIONS: ECONOMIC AND POLITICAL — Mr. Freund.

(Also called *Political Science 53, 54.*)

An examination of the major factors which condition international relations, with special emphasis on political and economic aspects. The first semester focuses on certain basic elements: physical and human resources, fundamental and political and economic concepts, and a consideration of the relevance of moral and legal precepts to international politics, with special reference to the interaction of these factors prior to World War II.

The second semester is devoted to an analysis of major international developments since 1945, including a consideration of economic development, the settlement of disputes, control of armaments. This is followed by individual or group projects. Prerequisites: *Economics 11, 12* and *Political Science 11, 12*, or permission of the instructor.

81. SEMINAR—ECONOMIC ISSUES IN PUBLIC POLICY—Mr. Hansen.

Advanced study of selected issues in domestic and international economic policy. This seminar will be linked to a series of public lectures by Mr. Hansen. Prerequisites: *Economics 11, 12, 31*, and *32*, or permission of a member of the Department.

(*Economics 82* will not be offered in 1959-60.)

Engineering

PROFESSOR CLAYTON W. HOLMES, *Chairman*
ASSOCIATE PROFESSOR THEODORE B. HETZEL
ASSISTANT, NORMAN M. WILSON

HAVERFORD gives a fundamental engineering education based on the broad, well established liberal arts program so much emphasized as needed to meet

today's requirements, and which is exceptionally well suited for preparing a student for a career in engineering, business or industry.

Students not intending to enter the highly specialized fields of design and research will find the Haverford courses ample for their needs. Graduates of Haverford who have majored in engineering are admitted to the student-engineers' courses of the leading industrial companies on equal terms with graduates of engineering colleges. Those who desire more technical training before entering the active work of the profession are granted substantial credit toward advanced standing in technical institutions or are admitted to their graduate schools.

The Engineering Major courses, including the science and mathematics courses that are usual in engineering schools, combined with courses in economics, sociology, and psychology, constitute a program such as is sometimes called "General Engineering" or "Engineering Administration." In addition the limited elective requirements insure breadth in the liberal arts, and nine free electives make a flexible program providing opportunity for additional concentration in science and engineering.

The engineering courses are conducted in Hilles Laboratory of Applied Science, a modern building with mechanical and electrical laboratories and other necessary facilities. Classes are small with close student-professor relationships.

Exceptional facilities are offered by the numerous industries in the Philadelphia area that welcome our students to visit their plants and the technical societies that invite them to their meetings. Frequent field trips are made.

Major Requirements

Engineering 11, 12, 21, 22, 33, 34, 41, 42, 100, and a Departmental seminar in which each Junior presents one paper, each Senior two papers on investigations of some engineering topic. Mathematics 21, 22, Physics 13, 14, and two half-year courses in Chemistry. The problems of the comprehensive examination are comparable to those of state examinations for a professional engineer's license.

Courses in Mathematics, Physics and Chemistry will be considered preliminary courses as defined on page 39.

11. PRINCIPLES OF ENGINEERING DRAWING AND SHOP METHODS—

Three laboratory periods a week. Mr. Hetzel and Mr. Wilson.

Two laboratory periods a week of instruction in the methods and conventions of engineering drawing and sketching; the use of instruments; orthographic, isometric, oblique and perspective drawings; intersections and developments; dimensioning. One period a week is spent in the shop working on metal-working machine tools. Two inspection trips to local industries.

12. ENGINEERING DRAWING, SURVEYING, AND SHOP METHODS—*Three laboratory periods a week.* Mr. Hetzel and Mr. Wilson.

Two laboratory periods a week of drawing and surveying: detail and assembly drawings; problems in descriptive geometry of lines and planes; a study of uniform and logarithmic graphs and of nomographs; solution of typical engineering problems; eight field exercises in plane surveying; surveying computations, drawing and mapping. One period a week is spent in the shop, machine-tool work on lathe, shaper and milling machine. Inspection trips. Prerequisite: *Engineering 11*.

21. KINEMATICS OF MACHINES—*One class period and two laboratory periods a week.* Mr. Holmes.

This course is an introduction to the understanding of machinery through the analysis of displacement and velocity in linkages and other mechanisms by means of diagrams and centros, the design of cams, belts and chains, gears and gear trains and other devices for the transmission of motion. Prerequisite: *Engineering 11* or consent of the instructor.

22. ANALYTICAL MECHANICS—Mr. Holmes.

A study of forces and moments of forces; determination of forces in trusses and cranes; centroids and center of gravity; rectilinear and curvilinear motion; translation and rotation of bodies; work, power, and energy; impulse and momentum; balancing and moments of inertia. Prerequisite or parallel course: *Mathematics 21, 22*.

33. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week.* Mr. Hetzel and Mr. Wilson.

Electrical and magnetic circuits, electrical measurements, theory and performance of direct-current machinery and distribution systems are studied by text assignments and problems, lecture and class discussion, and laboratory experiments. Prerequisite: *Physics 13, 14, Mathematics 21, 22*.

34. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week.* Mr. Hetzel and Mr. Wilson.

This course deals with alternating-current circuits and machinery: single phase and polyphase circuits, transformers, generators, motors, transmission and distribution systems, instruments, control systems, and an introduction to electronics. Prerequisite: *Engineering 33*.

41. MECHANICS OF MATERIALS—*Two class periods and one laboratory period a week.* Mr. Holmes.

A study of stress and strain, beams and columns, shafting, girders, combined stresses, etc. Inspection trips. Text: Singer, *Strength of Materials*. Prerequisite: *Mathematics 21, 22* and *Engineering 22*.

42. THERMODYNAMICS—Mr. Holmes.

Energy, gas laws, vapors; mixtures of gases and vapors; theoretical and actual thermodynamic cycles for power and refrigeration. Prerequisite: *Physics 13, 14*.

43, 44. ELECTRONICS—(See *Physics 43, 44*.)

81, 82. SPECIAL PROJECTS

Required of candidates for High and Highest Honors in Engineering but open to all students with the necessary prerequisites after consultation with the

instructor. Students in Engineering are encouraged to do individual work in some special field of investigation.

The following fields of study are suggested:

FLUID MECHANICS. Mr. Holmes.

Prerequisite: *Mathematics 21, 22, and Physics 13, 14.*

DESIGN OF MACHINE ELEMENTS. Mr. Holmes.

Prerequisite: *Mathematics 21, 22, Engineering 22, 41.*

INTERNAL COMBUSTION ENGINES. Mr. Hetzel.

Prerequisite: *Physics 13, 14.*

English

PROFESSOR RALPH M. SARGENT, *Chairman*

PROFESSOR JOHN A. LESTER, JR., *Acting Chairman*

ASSOCIATE PROFESSOR JOHN ASHMEAD, JR.

ASSOCIATE PROFESSOR FRANK J. QUINN

ASSISTANT PROFESSOR EDGAR S. ROSE

ASSISTANT PROFESSOR ALFRED W. SATTERTHWAITE

ASSISTANT PROFESSOR JAY H. GELLENS

ASSISTANT PROFESSOR JAMES W. HARPER

INSTRUCTOR PAUL D. SHEATS

THE ENGLISH DEPARTMENT offers the opportunity to study significant formulations of the human spirit in the English language, and to do critical and creative writing.

Many students who choose to major in English intend to pursue some aspect of the subject professionally: to proceed to graduate school, to teach literature, or to undertake a literary career. The program of the Department provides preliminary education for all these purposes. The study of English literature is recommended likewise to those students who wish to acquire a knowledge of their literary heritage, or to gain an acquaintance with the use of the English language, before entering a non-literary profession, such as law, government service, the ministry, medicine, or business. The Department welcomes such students.

English 11-12 is required of all Freshmen in the college; this course, or its equivalent, is a prerequisite to all further work in the Department. English 11-12 provides tutorial instruction in writing and an introduction to the study of literature.

Students who have difficulty in expressing themselves orally are recommended to take work in public speaking. The attention of slow readers is called to the remedial work in reading.

Courses 20, 21, 22, 25, 26 and 37 are open to all students in the college who have met the prerequisites. Other courses are designed primarily for students intending to major, or already majoring, in English or closely related fields. They are open to other students only by permission of the instructor concerned. A central sequence of courses is arranged for students majoring in English. It consists of 23 (Renaissance) and 24 (Seventeenth Century) normally to be taken in the Sophomore year, and 31 (Eighteenth Century) and 32 (Nineteenth Century) normally to be taken in the Junior year. Courses numbered in the 60's are seminar courses, in most cases based on earlier work in the period; courses numbered in the 80's are devoted to individual projects, requiring a general knowledge of the field in which the project is undertaken.

Major Requirements

Three semester courses from the following: Renaissance (23), Seventeenth Century (24), Eighteenth Century (31), Nineteenth Century (32). Two other English courses chosen in consultation with the chairman of the department. Two courses numbered in the 60's (or one in the 60's and one in the 80's). English 100. Eight semester courses in all. Any one-semester course in classical literature (in Greek, Latin, or English) may be counted toward the English major.

The Comprehensive Examination in English will require a knowledge of the four major periods of English literature as provided in courses 23, 24, 31 and 32. Supporting material may be chosen from Chaucer (64), Shakespeare (33 and 62), American literature (25 and 26) and Twentieth Century (35 and 36).

Students who plan to proceed to graduate work are reminded that virtually all graduate schools require a reading knowledge of both French and German, and many of the leading ones require a knowledge of Latin also, for the Ph.D. degree in English.

11-12. READING AND WRITING ON HUMAN VALUES—Messrs. Ashmead, Gellens, J. W. Harper, Lester, Reitzel, Rose, Satterthwaite, and Sheats.

Tutorial instruction in writing. Readings in the Humanities, centered on values in Western Civilization. Weekly writing, based on reading program. Two class meetings and one tutorial meeting weekly.

21. GENERAL COURSE IN ENGLISH LITERATURE—Mr. Sheats.

Major figures in English Literature from Chaucer to Milton (including Shakespeare). Intended primarily for students who do not expect to major in literature.

22. GENERAL COURSE IN ENGLISH LITERATURE—Mr. Sheats.

Major figures in English Literature from Swift to Eliot. Intended primarily for students who do not expect to major in literature.

23. LITERATURE OF THE ENGLISH RENAISSANCE—Mr. J. W. Harper, Mr. Satterthwaite.

A critical study of poetry, prose and drama from Wyatt to Jonson, with brief attention to Shakespeare. The first in a sequence of period courses designed primarily for students intending to major in literature. Enrollment limited.

24. LITERATURE OF THE SEVENTEENTH CENTURY—Mr. J. W. Harper, Mr. Satterthwaite.
A study of English literature from the metaphysical poets to Dryden, including Milton. The second of the sequence designed primarily for those intending to major in literature. Enrollment limited.
25. AMERICAN LITERATURE TO WHITMAN—Mr. Ashmead.
Chiefly devoted to Poe, Hawthorne, Melville; Emerson, Thoreau, Whitman.
26. AMERICAN LITERATURE FROM WHITMAN TO DREISER—Mr. Ashmead.
Chiefly devoted to Whitman, Dickinson, Lanier; Twain, Howells, James; Melville, Crane, Dreiser.
31. LITERATURE OF THE EIGHTEENTH CENTURY—Mr. Rose.
A study of the major literary works of the neo-classic and early romantic movements, from Defoe to Wordsworth and Coleridge. Prerequisite: *English 24*, or consent of the instructor.
32. LITERATURE OF THE NINETEENTH CENTURY—Mr. Lester.
A study of major literary works of the romantic and Victorian periods, from Byron to Hardy. Prerequisite: *English 31*, or consent of the instructor.
33. SHAKESPEARE—Mr. Satterthwaite.
Extensive reading in Shakespeare's plays. Designed primarily for students majoring in literature. Prerequisite: *English 21, 22, 23*, or *24*, or consent of the instructor. Enrollment limited.
35. BRITISH LITERATURE OF THE TWENTIETH CENTURY—Mr. Gellens.
Selected writers in poetry, prose and drama. Prerequisite: Two courses in *English* beyond *11-12*.
36. AMERICAN LITERATURE OF THE TWENTIETH CENTURY—Mr. Rose.
Selected writers in poetry, prose and drama. Prerequisite: Two courses in *English* beyond *11-12*.
37. CREATIVE WRITING—Mr. Gellens.
Practice in writing imaginative literature. Chiefly confined to prose fiction. Regular assignments, class discussions and personal conferences. Prerequisite: Junior standing. May be repeated for credit.
51. SPECIAL TOPICS IN NINETEENTH-CENTURY LITERATURE—Mr. Lester.
Seminar discussions and independent critical studies. Prerequisite: *English 32* and consent of the instructor. Limited to nine students. Priority to Senior English majors.
62. TOPICS IN SHAKESPEARE—Mr. Sargent.
Close study of a few plays. Seminar. Prerequisite: *English 23* or *33* or consent of the instructor. Priority to Senior English majors.
Not offered in 1959-60.
64. CHAUCER AND THE CHAUCERIANS—Mr. Quinn.
A study of the *Canterbury Tales*, *Troilus and Criseyde*, Chaucer's prose, and the work of Henryson and Dunbar. Prerequisite: Senior standing and consent of the instructor. Seminar. Limited to nine students.
Not offered in 1959-60.

66. **THE ROMANTIC MOVEMENT**—Mr. J. W. Harper.
Close reading of the major poems of Wordsworth, Coleridge, Byron, Shelley and Keats, supplemented with a study of the theoretical foundations of Romantic poetry. Offered in 1959-60.
68. **THEORY AND ANALYSIS OF POETRY**—Mr. Gellens.
A consideration of representative texts, both imaginative and critical, from all periods of English and American literature, in the effort to establish the capacity to respond to poetry. Seminar. Priority to Senior English majors. Offered in 1959-60.
81. **PROJECTS IN AMERICAN LITERATURE**—Mr. Ashmead.
Chiefly devoted to American Literature of the Eighteenth and Nineteenth centuries, Students must draw up their projects in consultation with the instructor. Recommended for students who are candidates for Final Honors. Prerequisite: *English* 25, 26 or 36, or consent of the instructor. Limited to nine students. Priority to Senior English majors.
82. **PROJECTS IN RENAISSANCE OR CONTEMPORARY LITERATURE**—Mr. Ashmead.
Projects may be undertaken in the literature of Shakespeare's Age, or in modern British or American literature, but they must be drawn up in consultation with the instructor. Recommended for students who are candidates for Final Honors. Prerequisite: One of the following: *English* 23, 31, 33, 35, or 36, or consent of the instructor. Limited to nine students. Priority to Senior English majors.

French

(See Romance Languages)

General Courses

HUMANITIES 21-22. INTERPRETATION OF LIFE IN WESTERN LITERATURE—Mr. Gutwirth, Mr. Rose, Mr. Cary.

A study in their entirety of selected literary and philosophic works which are great imaginative presentations of attitudes toward life. The course spans Western culture from Homer to the present, and the readings are drawn from all the major literatures of the West, in the best available translations. Stress is laid on student involvement in issues raised by these books; consequently, the class work is handled entirely by the discussion method. Prerequisite: *English* 11-12.

PHYSICAL SCIENCE 31. INTERATOMIC AND INTERMOLECULAR FORCES—Mr. Green.

This course deals with the quantum mechanical explanation of chemical bonding, its ionic, covalent, and metallic character as well as its steric properties. The course also deals with the forces between molecules, and this discussion leads on the one hand to some explanation of the properties of gases, liquids, and solids and on the other to certain speculations in the biological field. Prerequisite: *Mathematics* 22, *Physics* 14 and *Chemistry* 14; or the consent of the instructor.

PHYSICAL SCIENCE 36. HISTORY AND PHILOSOPHY OF SCIENCE—Mr. Green.
(Also called *Philosophy* 36.)

This course is designed for the non-science major and the science major alike. The

rise of modern science is discussed against the background of 16th and 17th century thought. The history of mechanics is carried forward to the relativity theory, and the history of optics and atomic structure leads to the quantum mechanics. The development of our ideas as to the nature of science is described and the implications of such concepts as the relativity of space and time, the indeterminacy principle, and complementarity are discussed. Prerequisite: the consent of the instructor, or a year of college mathematics.

German

PROFESSOR HARRY W. PFUND, *Chairman*

ASSISTANT PROFESSOR JOHN R. CARY

INSTRUCTOR OTTOMAR RUDOLF

LECTURER JOACHIM MAASS

ASSISTANT HELMUT GUTMANN

THE MAIN OBJECTIVE of the German courses is twofold: 1) the acquisition of the language; 2) the study of the literature and civilization of which it is the medium. The courses are planned and conducted with the aim of enabling the individual student to fulfill most effectively his prospective needs. Hence provision is made for acquiring a practical speaking knowledge of the language as well as the ability to read it for undergraduate and post-graduate research, for which in many fields it is indispensable. An appreciation of German literature from the Middle Ages to the Contemporary Period is offered in a relatively wide range of courses.

German 11-12, 13-14, and 24 are primarily language courses. German 15 stresses literature, but combines this with practice in the language. The remaining courses are devoted largely to the history of German literature from the earliest times to the present, and to the intensive study of special periods and eminent authors.

The collateral reading required in German 13-14 generally consists of works of literature but it may be done in the fields of philosophy or history or, at the discretion of the instructor, in the natural sciences.

Opportunity is given to students who complete German 11-12 or German 13-14 with distinction to advance rapidly into higher courses by passing a special examination on a prescribed program of collateral reading.

It is possible and in some cases highly desirable for a Major in German or a student otherwise interested in advanced work to take his Junior year abroad in a supervised Junior year program. Attention also is called to the opportunities offered by university summer schools in Germany, Austria and Switzerland, and to international seminars and work camps sponsored by the American Friends Service Committee and other organizations in these countries.

Major Requirements

German 21-22, 24, 31 (or 32), 33, and 100.

Supporting courses to be arranged in conference with the Major Supervisor.

A comprehensive examination covering: 1. The German language; 2. History of the German language; 3. German literature; 4. German history, 800-1945; and 5. A special period, literary movement, or author.

11-12. ELEMENTARY GERMAN—Mr. Pfund, Mr. Cary, Mr. Rudolf and Mr. Gutmann.

Grammar, conversation and the reading of simple texts.

13-14. INTERMEDIATE GERMAN—Mr. Pfund, Mr. Cary, and Mr. Rudolf.

Texts of moderate difficulty but of value as literature or as contributions to the history of ideas are read both in class and as outside work. The ability to understand spoken German and to engage in simple conversation is stressed. One hour a week is devoted to grammar review and composition. Prerequisite: *German 11-12* or the equivalent.

15. INTRODUCTION TO GERMAN LITERATURE AND CULTURE—Mr. Cary.

A selection of representative works in German literature from the age of Goethe to the contemporary period. Readings on various phases of contemporary German culture. The understanding of spoken German is stressed, and one hour a week is devoted to composition and conversation based on the reading. Prerequisite: *German 13-14* or the equivalent.

21-22. THE AGE OF GOETHE—Mr. Pfund.

Lectures and discussions on, and readings of, the chief works of Goethe (exclusive of *Faust*), Schiller, and certain of their contemporaries with a view to an understanding of the periods of Enlightenment, Storm and Stress, Classicism, and the beginnings of Romanticism. Emphasis upon literary and aesthetic appreciation and cultural backgrounds. Prerequisite: *German 15* or the equivalent.
Not offered in 1959-60.

24. ADVANCED COMPOSITION AND CONVERSATION—Mr. Cary.

The acquisition of an idiomatic command of the language in writing and speaking is stressed. Works of contemporary writers such as Thomas Mann, Hesse, Kafka, Wiechert and Bergengruen form the basis of discussion. Prerequisite: *German 15* or the equivalent.

28. MODERN GERMAN LITERATURE—Mr. Maass.

A critical analysis and aesthetic evaluation of representative works of Thomas Mann, Kafka, Rilke, Werfel and others. Lectures, discussions, reports, and one term paper. The course will be conducted in English. Admission by permission of the instructor or the Chairman of the Department.
Offered in 1960-61 and alternate years.

32. GERMAN ROMANTICISM—Mr. Cary.

A study of German Romanticism as a literary and philosophical school of thought. Prose, drama, and poetry of selected writers from Tieck to Heine. Prerequisite: *German 21-22* or permission of the instructor.
Offered in 1960-61 and alternate years.

33. GERMAN LYRIC POETRY—Mr. Pfund.
Lyricists from Walter von der Vogelweide to contemporary poets are read and discussed with emphasis on Goethe, Hölderlin, the Romanticists, Mörike, George, Hofmannsthal and Rilke. Prerequisite: At least one course beyond *German 15*. Offered in 1959-60 and alternate years.
34. NINETEENTH CENTURY LITERATURE—Mr. Cary.
Dramas and Novellen by selected writers from Büchner to Hauptmann. Prerequisite: *German 15* or the equivalent. Offered in 1959-60 and alternate years.
37. FAUST—Mr. Pfund.
An intensive study of Goethe's *Faust* in the original. Consideration is given to kindred works in European literature. Prerequisite: At least one course beyond *German 15*. Offered in 1960-61 and alternate years.
36. HISTORY OF GERMAN LITERATURE FROM ITS ORIGINS TO THE SEVENTEENTH CENTURY—Mr. Pfund.
Lectures in German, with collateral reading in modern German of the *Nibelungenlied*, Hartmann von Aue, Wolfram von Eschenbach, Gottfried von Strassburg, and others. Discussion, written and oral reports. Prerequisite: *German 21-22* or permission of the instructor. Offered in 1959-60.
- 81 or 82. Mr. Pfund and Mr. Cary.
Individual work in various fields of German culture, such as literary theory, Middle High German, Baroque literature and contemporary literature. Prerequisite: At least one course beyond *German 15*. May be repeated for credit with change of content.

History

PROFESSOR THOMAS E. DRAKE, *Chairman*

PRESIDENT HUGH BORTON

ASSOCIATE PROFESSOR WALLACE T. MACCAFFREY

ASSISTANT PROFESSOR JOHN P. SPIELMAN, JR.

THE COURSES IN HISTORY are designed to give some conception of the development of the civilizations which exist in Europe, in East Asia, and in the United States today. Since history is the story of what men have done, it is related to every other field in the curriculum, but the limitation of time forces a selection of those aspects of human activity which can be treated in any course. An attempt is made to give a reasonably rounded view of those developments which are deemed most important in the period under consideration as a background for understanding other subjects in the fields of

the humanities and the social sciences. With a variation of emphasis in each course, caused in part by the nature of the growth of civilization in the period and in part by the amount and the kind of historical evidence which has survived, attention is given to such phases of development as the political, constitutional, social, economic, religious, and intellectual. History 11-12 is intended to be an introductory course, and, although it is not a prerequisite for the election of any other course in the Department, it is required for those who major in History.

The study of history provides a background against which current problems of internal and external policies may be viewed to advantage. It also helps to develop critical standards for the evaluation of evidence which can often be applied in forming opinion with regard to the solution of such problems. Finally, it is useful as a foundation for professional studies not only in history but also in such subjects as public administration, journalism, and law.

Major Requirements

HISTORY

History 11-12 and four other full year courses (or three full year courses and two half year courses) in History; History 100.

Two full year courses or their equivalent in related departments.

Majors in History must take at least one year course in each of three of the following fields: 1) Ancient History, 2) Medieval European History, 3) Modern European History, 4) American History. A written comprehensive examination of three hours in one of these fields, chosen by the student as his area of concentration. Two written comprehensive examinations of forty-five minutes each in two other fields, one of which may be East Asian History. Majors concentrating in Ancient History are required to have a competence in Latin or Greek; those in Medieval History in French or German; those in Modern European History in French or German.

11-12. INTRODUCTION TO WESTERN CIVILIZATION — Mr. MacCaffrey and Mr. Spielman.

A study of Western European civilization from the fall of Rome to the present. The course will be concerned with the principal institutions and with the major intellectual currents in Western European history. Firsthand materials as well as secondary historical accounts will be the basis for conference discussion. Open to Freshmen and Sophomores only.

21-22. FOUNDATIONS OF THE UNITED STATES, 1492-1865—Mr. Drake.

Lectures, reading, and discussion in American colonial and early national history.

23-24. MEDIEVAL HISTORY—Mr. MacCaffrey.

A survey of European development from the fall of Rome to about 1400. Occasional lectures, extensive reading, papers and discussion, with a final examination. Admission by permission of instructor.
Offered in 1959-60 and alternate years.

25-26. MODERN EUROPEAN HISTORY—Mr. Spielman.

The main currents of European institutional and intellectual developments since about 1750. Class discussion with occasional lectures, frequent papers. Admission by permission of instructor.

27-28. CLASSICAL CIVILIZATION: HISTORY AND LITERATURE—Mr. Howard Comfort and Mr. Kennedy.

(Also called *Classics* 27-28.)

Study of the significant events and trends of ancient history and of the chief works of Greek and Latin literature in English translation. Offered in 1960-61 and alternate years.

29. SEMINAR IN GREEK CIVILIZATION—Mr. Howard Comfort and Mr. Kennedy.

(Also called *Classics* 29.)

Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with a study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history. Offered in 1959-60 and alternate years. Topic for 1959-60: The Fifth Century B.C.

30. SEMINAR IN ROMAN CIVILIZATION—Mr. Howard Comfort and Mr. Kennedy.

(Also called *Classics* 30.)

Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history.

Offered in 1959-60 and alternate years. Topic for 1959-60: The First Century B.C.

31-32. NATIONAL DEVELOPMENT OF THE UNITED STATES, 1865 TO THE PRESENT—Mr. Drake.

A study of institutional growth, with the larger social and political issues of the present considered in their historical setting. Lectures, readings, papers, and discussion.

33-34. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MEDIEVAL ENGLAND—Mr. MacCaffrey.

A survey of British historical development from the coming of the Anglo-Saxons to the end of the Middle Ages. Although primarily political and constitutional, the course will include consideration of major economic and social trends as well. Extensive reading both in sources and secondary works will form the basis for conference discussion.

Offered in 1960-61 and alternate years.

35-36. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MODERN BRITAIN—Mr. MacCaffrey.

A study of British history from the end of the Middle Ages, including economic, social, and intellectual development. Extensive reading with frequent papers and class discussion.

Offered in 1959-60 and alternate years.

37-38. MODERN HISTORY OF EAST ASIA—Mr. Borton.

A study of the international, political, social, and economic developments in Eastern Asia, from the early part of the 18th century to the present. Special emphasis will be given to a comparison of the processes of modernization of China, Korea, and Japan.

41-42. READING COURSE IN AMERICAN HISTORY, 1492 TO THE PRESENT—Mr. Drake.

Systematic reading and an examination in American History. Not open to students who have had History 21-22 or History 31-32; open to Juniors and Seniors with the permission of the instructor.

43-44. HISTORIOGRAPHY—Mr. MacCaffrey.

A study of major historians from classical times to the present, followed by a survey of historical theorists and schools of the last century. Reading, discussion, and papers. Open to Juniors and Seniors with permission of the instructor. Prerequisite: *History 11-12*.

Offered in 1960-61 and alternate years.

45-46. GERMANY AND CENTRAL EUROPE, 1500 TO THE PRESENT—Mr. Spielman.

The evolution of modern Germany from the Protestant Reformation to the present. Particular attention will be given to the historical background of modern political and ideological conflicts in Central Europe. Extensive reading and reports will be the basis for class discussion.

Offered in 1960-61 and alternate years.

47-48. THE FRENCH REVOLUTION AND NAPOLEONIC EUROPE—Mr. Spielman.

The Old Régime and French society before 1789, the course of the Revolution in France, its consequences for the rest of Europe and the Napoleonic Empire to 1815. Class discussion and papers based on readings in the sources and interpretive works.

Offered in 1959-60 and alternate years.

81, 82. PROJECT COURSES IN HISTORY—Mr. MacCaffrey, Mr. Drake and Mr. Spielman.

History of Art

ASSOCIATE PROFESSOR JAMES FOWLE

UNDER the co-operative arrangement between the Colleges, Haverford students who wish to take advanced courses in History of Art may do so at Bryn Mawr College. The introductory course is given at Haverford.

21-22. INTRODUCTION TO THE HISTORY OF ART—Mr. Fowle.

This course deals with the history of Western art from its beginning in ancient Greece to modern times. Its purpose is to increase the student's visual perception of works of art, to encourage intelligent investigation of the means of artistic expression, and to provide historical perspective for an understanding of the achievements of Western architects, sculptors, and painters. Assignments include short papers on original works of art in the Philadelphia area.

Mathematics

PROFESSOR CLETUS O. OAKLEY, *Chairman*

ASSOCIATE PROFESSOR ROBERT J. WISNER

ASSISTANT PROFESSOR JAMES O. BROOKS

ASSISTANT PROFESSOR LOUIS SOLOMON

THE AIMS of courses in Mathematics are: (1) to promote rigorous thinking by exhibiting a systematic, deductive, intellectual discipline; (2) to present to the student the direction and scope of mathematical developments; (3) to foster technical competence in mathematics as an aid to the better comprehension of the physical, biological, and social sciences; and (4) to guide and direct the mathematics majors toward an interest in mathematical research.

Freshman Mathematics emphasizes mathematical ideas rather than techniques of computation. It is designed as a terminal course for the non-specialist who plans to take only one year of mathematics as well as the beginning course prerequisite to further work in the Department.

The more advanced courses cover work in the fields of analysis, algebra, geometry, and statistics. The student majoring in the Department extends his studies into all of these areas; he may prepare for teaching in preparatory school, for graduate study leading to college teaching or research, or for statistical and actuarial work.

The sequence in analysis and algebra, Mathematics 21, 22, 31, 32, 33, 34, 63, is especially suited to the needs of the physical sciences, while Mathematics 14 and 38 deal with those concepts of statistics and probability which are fundamental to the biological and social sciences.

Major Requirements

Mathematics 11, 16, 21, 22, 31, 32, 33, 34, 35, 36, 63, 82 and 100.

Recommended collateral courses are Physics 13, 14, 28, 41, 42; Astronomy 45, 46, or for prospective Actuaries, Economics 11, 12, 23.

Prescribed parallel reading on the history and general principles of mathematics.

Three written comprehensive examinations, each three hours in length. An oral examination will be required for Final Honors.

It is recommended that facility in reading French and German be acquired as early in the college course as possible.

11, 12. FRESHMAN MATHEMATICS—Mr. Brooks, Mr. Oakley and Mr. Solomon.

An introductory course designed to present the fundamental concepts of modern Mathematics and to give numerous applications of these concepts to practical problems in the natural and social sciences. Topics included are: logic and the nature of mathematical proof, the number system, trigonometry, functions and graphs, plane analytic geometry, and elementary calculus. Students will be placed in sections according to their mathematical background and interests.

14. INTRODUCTION TO STATISTICS—Mr. Oakley and Mr. Brooks.

Tabular and graphic methods, frequency distributions, measures of central tendency, dispersion and correlation, tests of significance, probability and classical distributions, sampling. Lectures and computing laboratory. Prerequisite: *Mathematics 11*.

16. FRESHMAN MATHEMATICS—Mr. Brooks, Mr. Oakley and Mr. Solomon.

An introductory course which presents a more extensive treatment of elementary calculus than that given in Mathematics 12. Prerequisite: *Mathematics 11* and consent of the instructor.

21, 22. CALCULUS—Mr. Oakley.

Differential and integral calculus, with applications. Prerequisite: *Mathematics 16* or consent of the instructor.

31. DIFFERENTIAL EQUATIONS—Mr. Oakley.

Methods of solution of the standard types of ordinary differential equations with applications to problems in physical science. Prerequisite: *Mathematics 21*, 22.

32. ADVANCED CALCULUS—Mr. Oakley.

Advanced topics in calculus, including infinite series, special functions, partial derivatives, Jacobians, line integrals, and Stokes' Theorem. Prerequisite: *Mathematics 21*, 22.

33. MODERN ALGEBRA—Mr. Wisner.

Modern abstract algebra, including linear transformation and matrix theory. Prerequisite: *Mathematics 21*, 22.

Offered in 1960-61 and alternate years.

34. MODERN ALGEBRA—Mr. Wisner.

Introduction to modern abstract algebra, including groups, rings, fields, and vector spaces. Prerequisite: *Mathematics 21*, 22, 33.

Offered in 1960-61 and alternate years.

35. GEOMETRY—Mr. Solomon.

Elementary topology, n -dimensional vector spaces and linear transformations, non-Euclidean geometry. Prerequisite: *Mathematics 21*, 22.

Offered in 1959-60 and alternate years.

36. **GEOMETRY**—Mr. Solomon.
Affine, projective and Euclidean geometries and their postulational development.
Prerequisite: *Mathematics 21, 22, 35.*
Offered in 1959-60 and alternate years.
38. **MATHEMATICAL STATISTICS**—Mr. Oakley.
Theoretical presentation of the mathematical background of elementary statistics and probability. Prerequisite: *Mathematics 21.*
Offered in 1960-61 and alternate years.
41. **CLASSICAL FIELD PROBLEMS OF MATHEMATICAL PHYSICS**—Mr. Green.
(Also called *Physics 41.*)
Vector and tensor methods are employed to show the underlying mathematical similarities of field problems in gravitation, hydrodynamics, transport phenomena, and hydromagnetics. Prerequisite: *Physics 13-14.*
Mathematics 31 must be taken previously or concurrently.
Offered in 1959-60 and alternate years.
42. **BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS**—Mr. Green.
(Also called *Physics 42.*)
Expansions in orthogonal functions, perturbation theory, calculus of variations, and integral transforms are employed to solve boundary value problems in heat conduction, acoustics, optics, and electromagnetic theory. Prerequisite: *Mathematics 31; Physics 13-14.*
Offered in 1959-60 and alternate years.
63. **INTRODUCTION TO ANALYSIS**—Mr. Brooks.
Rigorous treatment of fundamental ideas in analysis; real and complex numbers, functions, limits, continuity, differentiation, and integration. Applications to Fourier Series and differential equations. Prerequisite: *Mathematics 31, 32.*
- 81 or 82. **SPECIAL TOPICS**—Philips visitors and members of the Department.
Project courses involving wide reading in the literature, and presentation of papers for group discussion. The content varies from year to year to suit the needs of advanced students. The course may be repeated for credit with change of content.

Music

ASSOCIATE PROFESSOR WILLIAM H. REESE, *Chairman*

ASSISTANT PROFESSOR JOHN H. DAVISON

THE COURSES offered in Music have as their objective (1) the stimulation of the creative energies of the student through musical composition, and (2) the development of an understanding of music through the study of history and important writings on musical subjects, as well as through the analysis of musical compositions from all periods. In furthering and strength-

ening the discipline of music the College has no intention of training musicians by conservatory methods. The intention is rather to form enlightened workers in the field of music. Experience has shown that students in the fields of composition and musicology can be effectively aided by the joint offerings of Haverford, Bryn Mawr, and the University of Pennsylvania. At Haverford the program seeks to stimulate free composition in the vocal and instrumental forms with a view to public performance by professionals of successfully completed works.

The College does not grant academic credit for training in voice, or the playing of instruments.

Major Requirements

Three full year courses in music and six semester courses or their equivalent from such related fields of the Humanities, History of Art, Languages and Science as may be approved by the Department.

The Major comprehensive examination will consist of:

1. An examination in the history of music.
2. The presentation by the candidate of a musical composition in one of the larger instrumental forms, or a vocal work. In cases where the candidate has not been sufficiently trained in musical composition, the examination may be confined to music history. In such cases the candidate's work is expected to be at a high musicological level.
3. A small composition to be completed during the examination period.

11. INTRODUCTION TO MUSIC HISTORY—Mr. Reese.

A study of the principal forms of musical literature of the 17th, 18th, and 19th centuries. No previous knowledge of music is required.

12. INTRODUCTION TO MUSIC HISTORY—Mr. Reese.

A historical survey of the development of musical thought from the Plainsong era to contemporary idioms. This course complements Music 11, but may be taken without it.

21-22. ELEMENTARY MUSIC THEORY—Mr. Davison.

The basic materials of music—melody, scales, intervals, chords, meter and rhythm. Counterpoint in two and three parts and harmony in four parts will be studied and implemented by ear-training, dictation, and sight-singing. Previous instruction or experience in some aspect of music is desirable.

31. SEMINAR IN MODERN MUSIC—Mr. Reese.

A study of Richard Wagner as man and artist; his music dramas in relation to the aesthetic theories of German dramatists and philosophers of the 19th century. No previous study of music is required.
Not offered in 1959-60.

32. SEMINAR IN MODERN MUSIC—Mr. Reese.

The music of Johann Sebastian Bach and his direct predecessors in historical perspective. Prerequisite: *Music 11 or 12.*

41, 42 MUSICAL COMPOSITION—Mr. Davison.

Composition in styles of the past and present. Students will proceed on an individual basis, advancing from smaller to larger forms as they are able. Idiomatic use of voices and instruments will be discussed. Successful student compositions will be performed at public work-shop concerts. Prerequisite: *Music 21-22* or the equivalent.

81, 82 PROJECTS IN MUSIC—Mr. Reese and Mr. Davison.

Philosophy

PROFESSOR DOUGLAS V. STEERE, *Chairman*

ASSOCIATE PROFESSOR FRANCIS H. PARKER

ASSISTANT PROFESSOR PAUL J. R. DESJARDINS

LECTURER EMERITUS MARTIN FOSS

LECTURER HENRY J. CADBURY

THE COURSES in Philosophy are intended first of all to acquaint students with the major currents of interpretation and reflection upon the recurring problems, such as the nature of man, the nature of the universe, the nature of the processes by which man apprehends and responds to that universe. Since these problems underlie the work of literature and furnish it with many of its most basic themes; since they underlie the presuppositions of political, sociological, and economic thought; since they reappear in the frame in which every thoughtful scientist works and affect not only the use to which his results will be put, but his very method, just as his methods have influenced in turn the formulation of the problems, the study of philosophy is an important tool in connection with work in any of these fields.

In the second place the courses in philosophy are designed to assist in integrating material presented in literature, history, the social and natural sciences, in art, and in religion in order to assist the student in drawing together what he has learned, and in approaching a more responsible, intentional, and intelligent world view with which to confront life.

The courses are so planned as to require such orientation as would be secured in either Philosophy 11 (which examines in an elementary way the great problems man confronts) or Philosophy 21-22 (which deals with these same problems as it presents the great classical philosophical thinkers chronologically) before proceeding to the more specialized philosophical disciplines such as ethics, aesthetics, logic, political philosophy, philosophy of science, philosophy of religion, and to more specialized studies of certain philosophical thinkers.

Major Requirements

Philosophy 12, 21-22, 63-64 and two other half year courses in Philosophy. Philosophy 100.

Four half-year courses in related fields to be arranged in conference with the Major Supervisor.

A comprehensive examination in two parts; three hours on the history of philosophy and three hours on one optional field selected from topics in philosophy since 1800, or religious thought.

11. INTRODUCTION TO PHILOSOPHY—Mr. Parker, Mr. Foss, and Mr. Desjardins.

An understanding of the nature and function of philosophy and its relations to other fundamental human interests such as science, religion, and art is sought through a consideration of representative philosophical problems.

12. ETHICS—Mr. Parker and Mr. Desjardins.

A study of (1) conflicts of ethical values involved in contemporary life; (2) certain classical ethical devices for resolving those conflicts; (3) the role of the individual and of the group in the realization of ethical values. Case material drawn from contemporary situations and from literature will be widely used. Discussions, lectures, and papers. Prerequisite: One semester-course in Philosophy.

14. LOGIC—Mr. Parker.

The principles of valid inference and their application to reasoning in everyday life, and in the sciences; the syllogism and other types of formal reasoning, the nature of proof, the detection of fallacies; introduction to the logic of scientific method and to contemporary developments in symbolic logic.

21-22. HISTORY OF PHILOSOPHY—Mr. Parker and Mr. Desjardins.

A study of the development of philosophy with special reference to Plato, Aristotle, Descartes, Locke, Berkeley, Hume, Spinoza, Leibnitz, Kant, and Hegel. First-hand acquaintance with selected writings of these philosophers; reports, lectures, and class discussions.

23. CLASSICS OF RELIGIOUS LITERATURE—Mr. Steere.

A study which will include such books as Augustine, *Confessions*; Benedict's *Rule*; Meister Eckhart, *Sermons*; *Little Flowers* of St. Francis of Assisi; Thomas à Kempis, *Imitation of Christ*; Francis de Sales, *Introduction to the Devout Life*; Pascal, *Thoughts*; John Woolman, *Journal*; Soren Kierkegaard, *Purity of Heart*; Von Hügel, *Letters*; Bernanos, *Diary of a Country Priest*; Kelly, *Testament of Devotion*; Paton, *Cry, the Beloved Country*.

Offered in 1960-61 and alternate years.

24. HISTORY AND PHILOSOPHY OF QUAKERISM—Mr. H. J. Cadbury.

The Quaker Movement is studied in relation to other intellectual and religious movements of its time, and in relation to problems of social reform. The development of the dominant Quaker conception is traced to the present day and critically examined. The course is designed for non-Friends as well as for Friends. Not open to Freshmen.

26. **AESTHETICS**—Mr. Desjardins.
A study of the philosophical principles underlying the creative and appreciative aspects of art. Prerequisite: One semester-course in Philosophy.
Offered in 1959-60 and alternate years.
27. **INDIAN PHILOSOPHY**—Mr. Foss
A study of the principal trends of Indian philosophy. Prerequisite: *Philosophy 11* or *21*.
Offered in 1959-60.
28. **PHILOSOPHY OF RELIGION**—Mr. Steere.
A study of the basic problems which the practice and claims of religion present to a reflective mind. Not open to Freshmen. Prerequisite: *Philosophy 11* or *21-22*.
Offered in 1960-61 and alternate years.
- 29b. **SOME ASPECTS OF RELIGIOUS LIFE AND LITERATURE SINCE THE REFORMATION**—Mr. Steere.
Thomas More and the Erasmus Tradition in England; Ignatius of Loyola and the Society of Jesus; Theresa of Avila and Spanish Mysticism; Isaac Penington and the mysticism of the Quakers; John Wesley and the Evangelical Revival; John Henry Newman and the Oxford Movement; William Temple and the ecumenical movement; Albert Schweitzer and the mission outreach; Rufus M. Jones and the religious situation of our time. Lectures, reports, class discussions.
Offered in 1959-60 and alternate years.
32. **NINETEENTH CENTURY THINKERS**—Mr. Steere.
Selected writings of Schopenhauer, Nietzsche, Tolstoy, and Bergson. Prerequisite: *Philosophy 11* or *21-22*.
- 34a. **RECENT AND CONTEMPORARY PHILOSOPHY**—Mr. Parker.
A study of some of the outstanding recent and contemporary philosophical movements in Europe and America. Prerequisite: *Philosophy 21-22*.
Offered in 1959-60.
36. **HISTORY AND PHILOSOPHY OF SCIENCE**—Mr. Green.
(See *Physical Science 36* under General Courses.)
37. **PLATO**—Mr. Desjardins.
A study of a selected group of the dialogues. Prerequisite: *Philosophy 21* or consent of the instructor.
Offered in 1960-61 and alternate years.
38. **ARISTOTLE**—Mr. Desjardins.
A study of a selection of the primary works of Aristotle. Prerequisite: *Philosophy 21* or consent of the instructor.
Offered in 1960-61 and alternate years.
39. **KANT**—Mr. Desjardins.
Study of the primary texts with special emphasis on the First and Third Critiques. Prerequisite: *Philosophy 22* or consent of instructor.
Offered in 1959-60.

53-64. PHILOSOPHICAL SEMINAR—Mr. Steere and Mr. Foss.

Specialized work in some restricted field of philosophic or religious thought is undertaken, the precise subject depending upon the needs of the students and the general interests of the group. Primarily designed for Seniors majoring in Philosophy and for Graduate students. Prerequisite: *Philosophy 21-22*; Majors unless by special arrangement. Limited to ten students.

81, 82. PROJECT COURSES—Individual consultation; supervised independent reading and research. Mr. Steere, Mr. Parker, Mr. Desjardins, and Mr. Foss.

Physical Education

PROFESSOR ROY E. RANDALL, *Chairman*

PROFESSOR WILLIAM DOCHERTY, JR.

ASSISTANT PROFESSOR ERNEST J. PRUDENTE

COURSES in Physical Education are arranged in accordance with the plan for all-year physical training in the Freshman, Sophomore, and Junior years. The aim of this plan is to make possible active participation in athletics for the majority of students at Haverford College, with emphasis on the sports with carry-over value. Each student is required to take, during his first three years, nine terms (fall, winter, spring) of Physical Education or of certain courses in the Arts and Service Program (see pp. 98-100), with a minimum of six terms in Physical Education: three in the Freshman year, two in the Sophomore year, and one in the Junior year.

Evidence of satisfactory physical condition is required by the department before any student is permitted to participate in any aspect of the program. A swimming test is given to all entering students. This test must be passed by all students before graduation. Swimming instruction is given in the gymnasium pool during the early fall and late spring.

The outdoor facilities include: Walton Field for football and track, with a 440-yard oval and a 220-yard eight lane straight-away cinder track; the Class of 1888 and Merion Fields for soccer, both of which are used for baseball and softball in the spring; a skating pond; Cope Field for cricket; an athletic field presented by the Class of 1916; a baseball field presented by the Class of 1922, used also for soccer in the fall; and thirteen tennis courts, three of which are all-weather. There are two dinghies available during the spring and fall for those (with certain exceptions) who wish to sail.

Indoor facilities include the Gymnasium and the Alumni Field House. The basement of the gymnasium contains dressing rooms, showers, lockers, a swimming pool, wrestling room and training room. Through the generosity

of the Class of 1928 it has been possible to provide additional locker and dressing facilities, a new stock room, and a laundry and drying room. A regulation basketball court is on the main floor, with hand ball and badminton courts. On the upper floors are dressing facilities for officials and instructors, and department offices.

The Alumni Field House, donated by Alumni and friends of the College, became available in 1957 and provides ideal facilities for the further development of the Athletic program. This "indoor playing field" includes a 7-lap track, with areas for field events, a dirt area 120' by 120' for outdoor events under cover, a batting cage for baseball and cricket, nets for golf, a wooden area 120' by 120' with two basketball courts, two tennis courts, and seating capacity for 1000 spectators.

Physics

ASSOCIATE PROFESSOR AARON LEMONICK, *Chairman*

ASSOCIATE PROFESSOR FAY AJZENBERG-SELOVE

LECTURER THOMAS A. BENHAM

COURSES in Physics are intended to acquaint students with fields of knowledge important to our civilization, to train them in analytical thinking, to give them an appreciation of scientific methods, and to help them gain first-hand experience and insight into the methods of experimental investigation. For the student with professional aims in science, the Department offers courses leading to a strong major in Physics which equips a man to enter graduate school.

Students of astronomy, experimental biology, chemistry, engineering, mathematics, medicine and other sciences will find the foundation offered by Physics 13, 14 and Physics 21 of great value. Physics 13, 14 is ordinarily taken in the Sophomore year after Freshman mathematics but Freshmen with adequate preparation in High School mathematics may be admitted after consultation with the instructor. Students who plan to major in Physics are advised to take Physics 13, 14 in their Freshmen year.

Sound knowledge of mathematics is essential. Ability to understand and use the calculus is assumed in most of the advanced courses. The Department desires to cultivate in its Major students independence of thought and initiative at progressive levels of maturity; to that end, a sequence of courses following Physics 13, 14 has been arranged, culminating in Physics 81, 82. The latter offers opportunity to conduct an extended individual investigation with

training in the mastery of theory and experiment, and with emphasis upon independent work and the ability to express oneself clearly both orally and in writing on the subject of investigation. Physics 81, 82 is not, however, limited to students majoring in Physics; it may be elected by others after consultation.

Major Requirements

Physics 13, 14, 21, 28, 33-34, 81, 82, 100 and two other semester courses in Physics.

Mathematics through differential equations.

A written comprehensive examination on physics treated comprehensively, designed to test each individual's ability to correlate his knowledge. The granting of Honors in Physics is based upon excellence (an average of 85 or better) in course work, particularly in Physics 81, 82, and evidence of accomplishment beyond the usual course requirements.

Students who desire to combine a Major in Physics with advanced work in some other related department may do so by special arrangement between the two departments concerned. In such cases a program is mapped out with some modification of the requirements normally expected of a Major in a single department.

13, 14. GENERAL PHYSICS—*Four hours, including one laboratory period a week.*

Mr. Lemonick.

This is the basic course for work in physics, engineering, chemistry or other sciences. Mechanics, sound, heat, electricity, and light are studied with the help of problems, laboratory experiments, lecture demonstrations, and discussion. This course is commonly taken in the Sophomore year, but qualified Freshmen are admitted after consultation. Algebra and trigonometry are essential. Prerequisite: *Mathematics 11, 12 or 16, or consent of the instructor.*

21. ATOMIC AND NUCLEAR PHYSICS—*Four hours, including one laboratory period a week.* Mrs. Selove.

A course of lectures, experiments, discussion and reading emphasizing developments in modern physics: the fundamental constants of physics, topics in relativity, low temperature and solid state physics, an introduction to quantum mechanics, optical and X-ray spectroscopy and other atomic phenomena. In addition nuclear phenomena will be discussed; nuclear reactions, accelerators and detectors of nuclear particles, nuclear models and nuclear energy. Prerequisite: *Physics 13, 14 and Mathematics 16, or consent of the instructor.*

25. PHYSICAL OPTICS AND ATOMIC SPECTRA—*Four hours, including one laboratory period a week.* Mr. Lemonick.

A study of the principles of physical optics illustrated by such phenomenon as interference, diffraction and polarization, and including an introduction to Maxwell's Equations. Also a treatment of spectroscopy, the study which furnishes information as to structure of atoms. Prerequisite: *Physics 13, 14 and Mathematics 21, 22.*

Offered in 1959-60 and alternate years.

28. MECHANICS—Mrs. Selove.

Analytical mechanics, treating the statics, kinematics, and dynamics of particles and rigid bodies. Discussion and problems on the application of calculus, differential equations and vector methods to mechanical systems, including an introduction to Lagrange's equations. Prerequisite: *Physics 13, 14; Mathematics 21, 22* must be taken previously or concurrently.

33-34. ELECTRICITY AND MAGNETISM—*Four hours, including one laboratory period a week.* Mr. Benham.

A course of lectures, readings, and laboratory experiments designed to familiarize the student with precision electrical measurements. Solutions of electrostatic problems, Gauss's theorem, potential, capacitance, magnetic circuits, transient and alternating current, and the laws of the electromagnetic field, are among the topics treated. Prerequisite: *Physics 13, 14* and *Mathematics 21, 22; Mathematics 31* must be taken previously or concurrently.

41. CLASSICAL FIELD PROBLEMS OF MATHEMATICAL PHYSICS—Mr. Green.
(Also called *Mathematics 41*).

Vector and tensor methods are employed to show the underlying mathematical similarities of field problems in gravitation, hydrodynamics, transport phenomena, and hydromagnetics. Prerequisite: *Physics 13, 14; Mathematics 31* must be taken previously or concurrently.

Offered in 1959-60 and alternate years.

42. BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS—Mr. Green.
(Also called *Mathematics 42*).

Expansions in orthogonal functions, perturbation theory, calculus of variations, and integral transforms are employed to solve boundary value problems in heat conduction, acoustics, optics, and electromagnetic theory. Prerequisite: *Mathematics 31; Physics 13, 14*.

Offered in 1959-60 and alternate years.

43. ELECTRONICS—CIRCUIT THEORY—*Four hours, including one laboratory period.* Mr. Benham.

This course includes the study of resonant circuits, coupled circuits, filter networks and impedance matching. Laboratory experiments are designed to give the student experience in the relation of theory to practice. Prerequisite: *Physics 33-34, or Engineering 33-34, or consent of instructor at spring registration.*

44. ELECTRONICS—VACUUM TUBE CIRCUITS—*Four hours, including one laboratory period.* Mr. Benham.

Electron theory, study and application of vacuum tubes, and problems pertaining to design and analysis of typical circuits employing them. Prerequisite: *Physics 33-34 or Engineering 33-34, or consent of instructor.*

45. ASTROPHYSICS—Mr. Green.

(See *Astronomy 45*).

Offered in 1960-61 and alternate years.

46. **ASTROPHYSICS**—Mr. Green.

(See *Astronomy* 46).

Offered in 1960-61 and alternate years.

48. **MODERN PHYSICS**—Mr. Lemonick and Mrs. Selove.

The physics of photons, nucleons, nuclei and elementary particles; their behavior and interactions. Students will carry out modern physics laboratory projects under supervision. Prerequisite: *Physics* 21, 28, 33-34.

81, 82. **PHYSICS SEMINAR**—Mr. Lemonick, Mr. Benham, and Mrs. Selove.

Individual work in selected fields of investigation. Each student pursues comprehensive reading and sustained experimental work on a problem. Weekly meetings are held with the members of the Department to discuss the progress in each field of investigation. Each student becomes familiar with problems other than his own and gains experience in presenting his own work. Students who major in Physics are expected to take two semesters, but the course is not restricted to Major students. Qualified Juniors or Seniors may, by permission, elect either one semester or two. Also, the course may be repeated for credit with change of content. The granting of Honors depends heavily upon performance in this course.

Political Science

PROFESSOR HERMAN M. SOMERS, *Chairman*

ASSISTANT PROFESSOR GERALD FREUND

VISITING LECTURER I. MILTON SACKS

VISITING LECTURER EDWARD G. JANOSIK

THE POLITICAL SCIENCE CURRICULUM is designed to give students an understanding of political organization and political forces in modern society, to provide knowledge and a basis for insight and judgment on the problems involved in the relationship of the individual to government and of governments to one another. The broad areas of study include: analysis of political theory in relation to its institutional environment; comparison and appraisal of different types of governments and political organization; American political institutions; and problems of international relations.

The tools of analysis include theory and experience. The purposes and the actual workings of political institutions are appraised. In advanced courses, emphasis is placed upon individual research and analysis—practice in location, organization, and presentation of data, and independent judgment.

The courses are designed primarily for a liberal arts education and are intended to create intelligent and lasting interest and participation in the formulation of public policy. The training will also serve the practical needs of those men contemplating professional careers which involve an under-

standing of modern government, such as law, journalism, and the public service.

Men majoring in political science are expected to understand the relationship of this field to other social studies and also the purposes and methods of the social sciences as a whole. They are thus expected to take supporting courses in economics, history, and sociology.

Major Requirements

Political Science 11, 12, and eight other courses in Political Science distributed among the areas of study indicated above.

Four approved semester courses in other social sciences.

A comprehensive examination covering the major fields of study. The comprehensive examination includes seminar participation.

Candidates for Honors are required to submit a thesis of independent research work. Such thesis may obtain credit through Political Science 81 or 82.

- 11, 12. FREEDOM AND CONTROL: Theory and Practice of Modern Government—Mr. Somers, Mr. Freund, Mr. Reitzel, and Mr. Sacks.

A comparative analysis of selected foreign and American political institutions and policies with reference to their theoretical foundations. The first semester concentrates on the development of main currents of western political thought, studied primarily through the original works of theorists who had major influence in shaping modern ideas and practice. Particular attention is given to the central issue of reconciling individual freedom with social control. The second semester examines the issues by comparing structure, administration, and policy in several countries.

23. AMERICAN CONSTITUTIONAL DEVELOPMENT.

A study of the development of the American constitution through judicial interpretation, related to the changing political, social and economic problems of the United States. Definitive Supreme Court cases shaping the course of American development will serve as the primary basis of study. Prerequisite: *Political Science 11, 12.*

Offered in 1960-61 and alternate years.

24. AMERICAN FOREIGN POLICY—Mr. Freund.

A survey of the evolution of contemporary American foreign policy interests and and critical analysis of the forces which shape policy. Emphasis is placed on research papers treating specific areas or issues. Prerequisite: *Political Science 12.* Offered in 1960-61 and alternate years.

27. AMERICAN POLITICAL THOUGHT—Mr. Sacks.

An approach to understanding the enduring significance of the American heritage through the study of outstanding political and social writings. Prerequisite: *Political Science 11, 12.*

Offered in 1959-60 and alternate years.

29. **INTERNATIONAL GEOGRAPHY**—Mr. Reitzel.
An introduction to geography as it enters into historical, social, economic, and political studies.
31. **PARTIES, PRESSURES, AND PUBLIC OPINION**—Mr. Somers.
A study of political parties, their organization and techniques, as an instrument of democratic government; the relationship of private associations and interest groups to the party system; the role of such associations in a democracy; and the struggle for power with relation to public opinion and theories of the public interest. Prerequisite: *Political Science 11 and 12*.
34. **SOCIAL WELFARE AND PUBLIC POLICY**—Mr. Somers.
(Also called *Economics 34* and *Sociology 34*.)
A study of the economic and political problems encountered in attempts to cope with the hazards of modern industrial society, including unemployment, disability, illness, and old age. Primary attention is given to the American social security system. Alternative methods of prevention and alleviation, and their economic and social consequences, are examined. Prerequisite: Either *Political Science 12*, *Economics 11* or *Sociology 11*.
Offered in 1960-61 and alternate years.
38. **GOVERNMENT ADMINISTRATION AND PUBLIC POLICY**—Mr. Somers.
A study of administration as a central element of contemporary society with special reference to the problems involved in the decision-making process; administrative theory and process in relation to the formulation and execution of public policy. The approach is analytical rather than descriptive and based, in large measure, on case studies. Prerequisite: *Political Science 31*.
Offered in 1959-60 and alternate years.
39. **GOVERNMENT AND BUSINESS**
(See *Economics 39*.)
- 41b. **THE SOVIET SYSTEM**—Mr. Hunter.
(See *Economics 41b*.)
43. **POLITICAL BEHAVIOR.**
A study of the role of personality, culture, mass media of communication, leadership, voting behavior, and organizational influences upon political life. Prerequisite: *Political Science 12*.
Not offered in 1959-60.
49. **THE POLITICS OF LOCAL GOVERNMENT**—Mr. Janosik.
An analysis of the political and administrative issues arising out of the changing character of community government. Problems of obsolete political boundaries, the development of independent multi-governmental authorities, the proliferation of quasi-governmental units, and the expanding conflicts and shifting relations of local, state and federal governments are examined. Seminar. Limited enrollment. Prerequisite: *Political Science 11, 12*.

53, 54. INTERNATIONAL RELATIONS: ECONOMIC AND POLITICAL—
Mr. Freund.

An examination of the major factors which condition international relations, with special emphasis on political and economic aspects. The first semester focuses on physical and human resources, basic political and economic concepts, and consideration of the relation of moral and legal precepts to international politics, with special reference to the interaction of these factors prior to World War II. The second semester is devoted to an analysis of major international developments since 1945, including economic development, settlement of disputes, control of armaments. This is followed by individual or group projects. Prerequisites: *Economics 11, 12* and *Political Science 11, 12*, or permission of the instructor.

55b. COMPARATIVE GOVERNMENT—Mr. Sacks.

An advanced, functional analysis of the political, social and economic institutions of contemporary Asia and Africa. Emphasis is placed on the changing role of government in society, on the political and economic forms that have been developed to meet new needs, and on the impact of these new developments on traditional political theory. Prerequisite: *Political Science 11, 12*.

Offered in 1959-60 and alternate years.

56. INTERNATIONAL ORGANIZATION—Mr. Freund.

An analysis of the development of international institutions and their role in security and social economic fields. Particular attention is given to case studies in United Nations operations and consideration is given to proposals for regional and world government. Prerequisite: *Political Science 12*.

Offered in 1960-61 and alternate years.

64. MODERN POLITICAL AND SOCIAL THEORY—Mr. Sacks.

A study of leading political doctrines which have had a major influence in shaping the issues and conflicts of the modern world. Prerequisite: 1 year of *Political Science* or *Economics*.

81, 82. INDEPENDENT PROJECT COURSES—*Individual consultation; supervised independent reading and research.* Members of the Department.

Research papers and oral reports on special topics based upon the individual interests of advanced students. Open only to senior Social Science majors by permission of the instructor. Theses of candidates for Honors may be written for credit in this course. Limited enrollment. May be taken as semester or year course by arrangement with instructor.

Psychology

ASSOCIATE PROFESSOR DOUGLAS H. HEATH, *Chairman*

ASSISTANT PROFESSOR HOWARD B. RANKEN

COURSES in Psychology are intended to acquaint the student with an understanding of principles of human behavior as derived from psychological theory and investigation. The subject deals primarily with the relationship of the individual and his environment. The curriculum contributes to the

intellectual development and liberal education of the student by providing a systematic attempt to interpret the facts of experience and behavior and to examine the possible contributions of the science of psychology to other areas of specialization.

Major Requirements

A major program in psychology requires twelve semester courses as follows: Psychology 12, 23 or 24, 25, 27, 33 or 38, 100 and two additional courses in the Department other than Psychology 81, 82; Mathematics 14, Sociology 11, 23 and one course from the following group: Philosophy 12, 14, 34, Physical Science 36, Economics 36, Political Science 43, Biology 12, 13, 33 and selected courses from the Sociology Department. It is recommended that a student interested in majoring in psychology complete the mathematics requirement by the end of his sophomore year. Mathematics 14 is recommended for a number of the advanced psychology courses.

Honors candidates should plan to take at least one semester of Psychology 81 or 82 prior to the spring semester of their senior year.

The comprehensive examination will presuppose mastery of the core areas of systematic psychology. Such areas include methodology and statistics, learning, cognitive processes, motivation, social psychology, personality theory and the major historical developments in psychology. A minimal bibliography of basic readings in these areas is available upon request.

12. GENERAL PSYCHOLOGY—Mr. Heath.

(Also called *Sociology 12*.)

The course will focus on the basic concepts and methods of the fields of learning, cognitive processes, personality and social psychology. Emphasis will be placed on independent reading, papers, and project work throughout the course.

23. PRINCIPLES OF LEARNING—*Three class hours and laboratory*—Mr. Ranken.

This course will consist of a systematic analysis of the learning process and its relation to remembering, motivation, and language behavior. While emphasis will be placed on contemporary theoretical issues and experimental work in the area of learning, the historical context out of which these issues have developed will also be discussed. Prerequisite: *Psychology 12*.

24. COGNITIVE PROCESSES—*Three class hours and laboratory*—Mr. Ranken.

An experimental introduction to the problems of perception and sensation, thinking, concept formation and other cognitive processes. Prerequisite: *Psychology 12*.

25. PRINCIPLES OF MOTIVATION—*Three class hours and laboratory*—Mr. Heath.

Following an analysis of the major components of the motive sequence, the course will intensively review the experimental literature on sexual behavior, anxiety, aggression, and the achievement need. The basic experimental methods for measuring need states will be illustrated in the laboratory. Independent experimental research will be stressed. Mastery of elementary statistics will be assumed. Prerequisite: *Psychology 12*.

26. HUMAN RELATIONS

(Also called *Sociology 26.*)

Problems of interpersonal, intra-group, and inter-group relationships will be examined within the framework of principles of social psychology. Prerequisite: *Psychology 12.*

27. SOCIAL PSYCHOLOGY—Mr. Ranken.

(Also called *Sociology 27*)

Following an introduction to the basic methods used for collecting social psychological data, the course will concentrate on the formative effects of social organization on personality, group dynamics, problems of communication, and the effects of mass media on attitude change. Prerequisite: *Psychology 12.*

33. THEORIES OF PERSONALITY—Mr. Heath.

The course is organized in two parts: 1) Methods of personality assessment, including interview and projective tests, will be illustrated within the context of a single case study of a normal college student. Critical evaluation of the predictive adequacy of personality tests will be emphasized. 2) The personality theories of Freud, a neo-analyst, and Rogers will be studied by extensive readings from original sources. Class discussion and papers will concentrate on clarifying and evaluating the merits of the different theories. Prerequisite: *Psychology 12.* *Psychology 25* is recommended.

34. DEVELOPMENTAL PSYCHOLOGY—Mr. Heath.

The seminar will be organized around the major developmental problems of childhood and adolescence and the cognitive control modes used to master these problems. Consideration will also be given to the psychological aspects of marriage, religion, and old age. Prerequisite: *Psychology 33* and consent of instructor.

38. SYSTEMS AND THEORIES OF PSYCHOLOGY

A systematic study of contemporary theories in selected problem areas: perception, learning, motivation and personality. Basic theoretical issues will be examined in historical perspective. Special attention will be given to classical experiments and modern research methods that have contributed to the development of fundamental concepts in psychology. Prerequisite: *Psychology 12*, and *23* or *24* or *25*.

81, 82. INDEPENDENT PROJECT COURSE—Mr. Heath and Mr. Ranken.

This course is designed for those students who wish to plan and carry out an experimental research project or empirical investigation in an area of special interest. This course may be repeated for credit with a change in content. Admission to course by consent of the Department.

DEVELOPMENTAL READING—Mr. F. D. Comfort.

This program offers an opportunity for students to improve their reading proficiency. Few students, if any, have realized their real potentiality in this field. Through a series of conferences, methods of developing higher level reading skills are explored. Any student who is willing to concentrate upon it, while reading for his various subjects, will find that he can increase his speed and comprehension. Also, by giving thought to the different purposes of reading, and practicing methods appropriate to each purpose, he may increase his adaptability, making each type of reading more effective. No credit.

Romance Languages

ASSOCIATE PROFESSOR MARCEL M. GUTWIRTH, *Chairman*

ASSOCIATE PROFESSOR MANUEL J. ASENSIO

ASSOCIATE PROFESSOR BRADFORD COOK

LECTURER JACQUES MARIES

ADMISSION of new students to all French and Spanish courses except French 11-12 and Spanish 11-12 is contingent upon placement examinations administered by the Department prior to the opening of such courses.

Opportunity is given to students who complete French 11-12, Spanish 11-12 or Spanish 13-14 with distinction to advance rapidly into higher courses by passing a special examination in September on a prescribed program of vacation study.

Residence in the French and Spanish Houses and participation in the Cercle français and Club español afford an opportunity for supplementary oral practice.

Students who might profitably spend their Junior year in France or Spain are encouraged by the Department to apply for admission to the institutions sponsoring foreign study groups.

Students majoring in Romance Languages are encouraged to spend a summer in France or in a Spanish speaking country. Foreign summer schools and projects sponsored by the American Friends Service Committee and other organizations offer exceptional opportunities in this regard.

FRENCH

The program of French courses offers students an opportunity:

- 1) to learn to read, understand, speak and write French. In French 11-12 emphasis is placed on the ability to read and pronounce French. In French 13-14 a special effort is made to teach students to understand spoken French. French 21 and 22 are planned for the benefit of students primarily interested in learning to speak and write French;
- 2) to achieve an understanding of the basic attitudes implicit in a foreign culture which has exerted a profound influence in the shaping of western civilization;
- 3) to read with an increasing awareness of philosophical, moral, aesthetic and social implications the most significant French literary works.

Major Requirements

French 23-24, 25, 26, 81 or 82, and 100.

Supporting courses to be arranged in individual conference with the Major Supervisor.

Comprehensive Examination.

11-12. INTRODUCTION TO FRENCH LANGUAGE AND THOUGHT—Mr. Cook and Mr. Mariès.

First semester: Study of those aspects of French grammar without a knowledge of which one cannot read French intelligently. Training in pronunciation. Second semester: Reading of authors who have concerned themselves with important problems. One class hour a week is devoted to translation, another to concentrated analysis of short texts, and the third to discussion of rapid reading.

13-14. THE FRENCH PEOPLE—Mr. Gutwirth, Mr. Cook, and Mr. Mariès.

The purpose of this course is to aid the student, through analysis of French attitudes and comparison with equivalent American attitudes, to achieve a more objective understanding of the French people and of certain cultural forces which have had a part in shaping his own life. Reading and discussion of French literary works for their cultural implications. An intensive effort is made to help students learn to understand spoken French. Prerequisite: *French 11-12* or the equivalent.

21. SPOKEN FRENCH—Mr. Mariès.

This course is designed to develop the student's ability to speak French correctly and without embarrassment. At first most of the work will be carried on through individual conferences and laboratory periods; as the ability of the student increases and general discussion becomes more profitable, more emphasis will be placed on regular class meetings. Students who plan to take this course are encouraged to make arrangements to live in the French House. Prerequisite: Special permission of the Department. Enrollment limited to twelve students.

22. THE FRENCH LANGUAGE—Mr. Mariès.

The development and structure of the French language are studied as a means to a more general understanding of the nature and function of language. Through extensive drill an attempt is made to teach students to write French correctly. Prerequisite: *French 21* or the equivalent.

23-24. CURRENTS OF FRENCH LITERATURE—Mr. Cook.

A study of the fundamental trends of literature from Humanism to Existentialism. Special emphasis is placed on the relationship of philosophical, social, and literary schools of thought. Although importance is attached to historical development, this course does not constitute a survey of French literature. Prerequisite: *French 13-14* or the equivalent.

25, 26. A SYMPOSIUM OF SIGNIFICANT FRENCH WRITINGS—Mr. Gutwirth.

This course, while independent of French 23-24, is complementary to it. It consists of studying and discussing a limited number of masterpieces chosen from the whole range of French literature. Emphasis is placed on intrinsic value rather than on social and historical relationships. The list of works read is varied from

year to year to suit the needs and interests of the students and of the teacher. Because of the change in content, students who have already taken this course may take it again for credit. Prerequisite: *French 23-24, 21, 22* or the equivalent.

81, 82. SPECIAL PROJECTS IN FRENCH LITERATURE—Mr. Gutwirth, Mr. Cook, and Mr. Mariès.

This course offers the student of French literature an opportunity to probe more deeply and more independently into a problem or into an area in which he is particularly interested. The nature of the course will therefore vary to suit the needs of each individual student.

SPANISH

The courses offered in Spanish are designed to give the students a thorough knowledge of the Spanish language and an understanding of Spanish and Spanish-American thought and culture. Elementary Spanish and Intermediate Spanish are primarily language courses, with emphasis on grammar, reading, and conversation. Even in these elementary courses the approach corresponds to the liberal tradition of the College, placing emphasis on the human value of the language, and its importance in international and continental solidarity and understanding. The elementary courses are followed by general courses in civilization and literature, as the basis for the more advanced courses covering special periods, works, and authors in Spanish and Spanish-American literatures.

Major Requirements

Spanish 21-22; 23-24, 81 or 82, and 100.

History of Spain and Spanish America, as a background for literature.

Supporting courses to be arranged in individual conference with the Major Supervisor.

Comprehensive Examination.

11-12. ELEMENTARY SPANISH—Mr. Asensio.

Grammar, with written and oral exercises; reading; thorough drill in conversation.

13-14. INTERMEDIATE SPANISH—Mr. Asensio.

Review of grammar, with written and oral exercises; composition, reading and conversation. Prerequisite: *Spanish 11-12* or the equivalent.

15-16 INTRODUCTION TO HISPANIC CIVILIZATION—Mr. Asensio.

Geographic, cultural, and historical background. Emphasis is laid on basic attitudes underlying the Spanish and Spanish-American culture pattern and contrasting with characteristic American attitudes. Lectures, reading, discussion, written reports. Prerequisite: *Spanish 13-14* or the equivalent.

Offered in 1959-60 as a reading course.

21-22. INTRODUCTION TO SPANISH LITERATURE—Mr. Asensio.

A survey of Spanish literature from the beginnings to modern times; lectures, written and oral reports. Prerequisite: *Spanish 13-14* or the equivalent.

Offered in 1960-61 and alternate years.

23-24. INTRODUCTION TO LATIN-AMERICAN LITERATURE—Mr. Asensio.

A survey of Latin-American literature from the Colonial period to modern times; lectures, written and oral reports. Prerequisite: *Spanish 13-14* or the equivalent.

Offered in 1959-60 and alternate years.

33. SPANISH LITERATURE OF THE GOLDEN AGE—Mr. Asensio.

Cervantes, Lope de Vega, Tirso de Molina, Calderon; lectures, written and oral reports.

Not offered in 1959-60.

81, 82. SPECIAL TOPICS IN SPANISH LITERATURE—Mr. Asensio.

Reading and lectures; written and oral reports. This course may be repeated, with change of content, for full credit.

Russian

ASSOCIATE PROFESSOR FRANCES DE GRAAFF, *Chairman*

THE COURSES in Russian are designed to offer the students the opportunity to learn to read and speak Russian and to achieve an understanding of the thought and culture of pre-revolutionary as well as contemporary Russia. Russian 11-12 and 21-22 are primarily language courses. The elementary course teaches the basic grammar and enough vocabulary to enable the student to speak and understand simple Russian. The intermediate course introduces the student to the Russian literary language; also some newspaper articles and other contemporary material are read.

Students who have completed Russian 21-22 can continue with the more advanced courses offered at Bryn Mawr College.

Major Requirements

(Courses numbered above 100 are offered at Bryn Mawr College.)

Students majoring in this field will be required to take:

8 semester-courses in Russian language and literature: 11-12, 21-22, 201, a 300 course chosen from 301, 302, 303, 304, in addition to the 100 course.

4 semester courses in Russian history and institutions: History 208 (History of Russia); Political Science 41 (Soviet Political and Economic Development).

Other related courses, including Russian 203, (Russian Literature in Translation) will be arranged in individual conference with the major supervisor.

A comprehensive examination on the Russian language, a special period of Russian literature, and Russian history.

11-12. ELEMENTARY RUSSIAN*—*Five periods a week.* Miss de Graaff.

Russian grammar, conversation, and reading.

*This course meets five times a week with corresponding reduction in outside preparation; three hours credit.

21-22. INTERMEDIATE RUSSIAN—*Four periods a week.* Miss de Graaff.

Grammar review, reading in Russian classics and contemporary materials, conversation. Prerequisite: *Russian 11-12* or the equivalent.

Sociology and Anthropology

PROFESSOR IRA DE A. REID, *Chairman*

LECTURER EDWARD B. HARPER

INSTRUCTOR JOHN W. SMITH

THE CURRICULUM in Sociology and Anthropology is designed to develop the student's understanding of the social structure, the social process, and the social relationships of human societies. The subject matter deals with man, his groups, his organizations, and his communities. Courses are offered for those who would make these subjects their area of major interest as well as for those students who wish to study behavioral science methods or such specific groups and institutions as populations, the family, and the urban community.

Major Requirements

A major program in Sociology and Anthropology has a prerequisite of *Sociology 11, 13, 21, and 22*. Students are advised to take these courses in their Freshman and Sophomore years. The program requires the satisfactory completion of the following courses:

- a. *Sociology 11, 13, 21, 22, 33 or 40, 37 or 38, 49, 50, 81 or 82, 100.*
- b. two additional courses selected from the departments of Economics, Political Science, and Psychology, subject to the approval of the major supervisor.
- c. Mathematics 14 is suggested but not required.

A comprehensive examination and a research paper designed to test the student's knowledge as well as his ability to integrate and utilize the subject matter of the behavioral sciences are required in the Senior year.

Candidates for Final Honors in Sociology and Anthropology will be required to complete two research papers, one in the field of *Social Groups and Institutions* during the Junior year, another in the field of *Social Processes and Issues* during the Senior year, and to take a comprehensive examination in each year.

11. INTRODUCTION TO SOCIOLOGY—Mr. Reid and Mr. Smith

A basic course designed to acquaint the student with the essential points of view about human groups and their behavior, the more important information which sociologists have discovered about groups, the research procedures used, and the basic technical vocabulary of the field.

12. GENERAL PSYCHOLOGY—Mr. Heath.

(See *Psychology 12.*)

13. INTRODUCTION TO ANTHROPOLOGY—Mr. E. B. Harper.

A study of the basic materials and ideas of modern anthropology, designed to give the student a well-rounded view of the origin, development, and differentiation of man as a biological organism as he lives within the contexts of human cultures.

21, 22. SOCIAL RESEARCH—Mr. Reid and Mr. Smith.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques, and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical, and other research procedures. Individual projects. Required of Sociology Majors. Prerequisite: *Sociology 11*, or introductory courses in the other social sciences.

26. HUMAN RELATIONS

(See *Psychology 26.*)

27. SOCIAL PSYCHOLOGY—Mr. Ranken.

(See *Psychology 27.*)

28. ETHNOLOGY—Mr. E. B. Harper.

A comparative study of cultures with particular reference to their institutions, value systems, behavioral patterns, and their interrelations. Prerequisite: *Sociology 13.*

33. POPULATION POLICIES AND PROBLEMS—Mr. Reid.

A study of the restrictive, expansive, and eugenic aspects of national population policies as they are related to demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration, and food supply. Prerequisite: *Sociology 11.*

Offered in 1960-61 and alternate years.

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.

(See *Political Science 34.*)

36. LABOR ECONOMICS AND LABOR RELATIONS—Mr. Teaf.

(See *Economics 36.*)

37. THE FAMILY—Mr. Reid.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects. Prerequisite: *Sociology 11.*

Offered in 1959-60 and alternate years.

38. THE MODERN URBAN COMMUNITY—Mr. Reid.

A study of the social and spatial aspects of modern urban community organization as influenced by personal, technological, ecological, economic and political

factors. Special attention is given to the problems and processes of planning. Individual projects. Prerequisite: *Sociology 11*.

40. RACE AND ETHNIC GROUPS IN THE MODERN WORLD—Mr. Reid.

An analysis of the secularization of the world's peoples and the contemporary "minorities" situations in the world; how these situations arise; how they are perpetuated. Special attention is given to theories and methods of analysis. Individual projects. Prerequisite: *Sociology 11*.

Offered in 1960-61 and alternate years.

42. THE PEOPLES OF INDIA—Mr. E. B. Harper.

This course is to acquaint the student with the basic structure of rural Indian society. Topics dealt with will include: village political and economic organization; the caste system; family structure; popular Hinduism; and the relationship of these to the greater Indian civilization.

45. SOCIAL DISORGANIZATION AND DEVIANT BEHAVIOR—Mr. Smith and Mr. Reid.

An analysis of the theories and problems of social disorganization as they relate to conformity and deviancy in human behavior. The course will be based on a series of specially designed case studies dealing with the situations and roles of the gambler and the speculator, the migrant and the vagrant, the sexual deviant, the alcoholic and the drunkard, the spectator and the performer, the delinquent and the criminal, the conscientious objector and the radical. Lectures, discussions, field trips, reports.

49, 50. SOCIOLOGICAL THEORY—Mr. Smith.

The nature and function of sociological theory and its place in the development of the field of Sociology. The reciprocal functions of sociological theory and sociological research. Intensive attention will be given each year to several major theorists.

52. ISSUES IN SOCIETY—Mr. Reid.

This seminar is designed to treat a sociological situation of current or potential importance, emphasizing the nature and problems of social fact, social values and the social process. The current course will be concerned with the sociological aspects of law and religion as social institutions. Required of Sociology Majors. This course may be repeated for credit. Prerequisite: Permission of instructor.

64. SPECIAL TOPICS IN ANTHROPOLOGY—Mr. E. B. Harper.

An advanced course in restricted fields of cultural anthropology. Prerequisite: *Sociology 28*.

81, 82. PROJECT AND READING COURSES.—*Individual consultation; supervised independent reading and research*—Staff.

Research papers and reading courses on special topics based upon the individual interests of advanced students. Theses for majors in the Department may be written for credit in this course. Admission is subject to the consent of the Chairman. Required of all sociology-anthropology majors.

Spanish

(see Romance Languages)

Arts and Service Program

THE FACULTY OF HAVERFORD COLLEGE adopted in the spring of 1947 a program designed to cultivate aesthetic perception, creative control of materials, a love of fine workmanship, and other important areas of learning and of experience, such as community service, which have usually been omitted from the liberal arts program. The Faculty feels that, though courses in these areas cannot properly be included in the academic curriculum, they are of no less importance in the development of personality than strictly intellectual work.

Every student is required to take nine terms (a "term" in this sense being approximately nine weeks in either the autumn, winter, or spring) of work which is not academic in nature. It is mandatory that six of these terms be taken in Physical Education: three in the Freshman year, two in the Sophomore year, and one in the Junior year. The remaining three terms may be devoted either to courses of the Department of Physical Education or to those of the Arts and Service Program described here. The Arts and Service courses are offered in the fall and winter but not in the spring term; the first election of such courses may be made in the Sophomore year.

In its non-academic work, the College insists on the same high quality of teaching which it demands in its academic courses. A distinction in the two types of work is needed not because one is thought to be less important than the other, but because in the opinion of the Faculty the two kinds of work are different and should not be equated.

CABINETMAKING—*Three hours a week.* Mr. Holmes.

Instruction in woodworking with hand tools on selected tasks. Qualified students may work on projects of their own choice insofar as facilities permit. Cost of materials will be borne by the student. Limited to five students, with consent of the instructor. Offered in the winter term, but students wishing to enroll in this course should see Mr. Holmes at the time of registration for the fall term.

COMMUNITY SERVICE—*Three hours a week.* Mr. Hetzel.

This course provides an opportunity for students to render service to, and participate in, the affairs of the community. Arrangements are made on an individual basis for scheduled and supervised activities such as Boy Scout leadership, work at the Main Line YMCA and at community centers in Philadelphia, political party and

election campaign activity, work for the Red Cross, the American Friends Service Committee, etc. Offered in the fall and winter terms.

MACHINE-TOOL WORK—*Three hours a week.* Mr. Wilson.

This course, designed for beginners, will include machine-tool work on the lathe, milling machine, shaper, and drill-press. Those who have sufficient skill will be permitted to use the scheduled period for approved projects of their own choice. Offered in the winter term. Limited to five students.

MODELING AND SCULPTURE—*Three hours a week.* Mr. J. Wallace Kelly.

A course open to beginners or advanced students. It includes composition, portrait, life, and some study of modern trends in sculpture. Students will use wet clay and plasteline, and will build directly in plaster. As artists have long been taught to read, so this course aims to teach academic students to see. Offered in the winter term.

MODERN IRON SCULPTURE—*Three hours a week.* Mr. J. Wallace Kelly.

A practical course using a spot welder to develop three dimensional free forms. Each student will make sketches and develop a composition, will use iron rods and thin-gauge sheet iron cut, shaped, and then welded together. Students will also discuss modern sculpture with the instructor. Offered in the fall term. Limited to six students.

MUSIC APPRECIATION—(1)—*Three hours a week.* Mr. Reese.

An elementary course designed to develop a technique of listening to music. The basic aspects of music—melody, rhythm, harmony, texture, color, form—are studied. Emphasis is placed on the analysis of examples given and of music heard in available concerts. Students are required to keep a class notebook. Offered in the winter term.

MUSIC APPRECIATION—(2)—*Three hours a week.* Mr. Caselli.

Italian Comic Opera will be studied and analyzed with particular regard to the different schools. An answer to a simple questionnaire will be required at the end of the course as a final examination. Offered in the fall term.

PAINTING AND GRAPHIC ARTS—*Three hours a week.* Mr. Janschka.

The purpose of instruction in this course is to help the student in acquiring perception and skill in artistic creation and rendition through the media of drawing, printmaking, and painting. It will involve an investigation of the uses and potentialities of different techniques, employing still life, life models, and imagination. For the advanced student the stress is on picturemaking, but prior experience is not required. Offered in the fall and winter terms. Limited to twelve students each term.

PHOTOGRAPHY—*Three hours a week.* Mr. Wilson.

This is a course for beginners, and will include instruction in the use and characteristics of photographic equipment, the processing of films and papers, and the composition of subject material both indoors and outdoors. Offered in the fall term. Limited to four students.

RADIO COMMUNICATION—*Three hours a week.* Mr. Benham.

This course consists of projects in radio, such as instruction in the International Morse Code, a study of basic principles, or a construction project (the cost of materials to be borne by the student). It may serve as preparation for the amateur license examination given by the Federal Communications Commission. Offered in the winter term. Admission with the consent of the instructor.

READING AND RECORDING FOR THE BLIND—*Three hours a week.* Mr. Benham and Mr. Butman.

This course offers the opportunity of reading to students at the Overbrook School for the Blind, or making tape recordings of short stories, novels, and poetry. Admission with the consent of the instructors. Offered in the winter term, but students wishing to enroll in this course should see Mr. Benham at the time of registration for the fall term.

THEATER ARTS—(1)—MOVEMENT ON THE STAGE—*Three hours a week.* Mr. Butman.

In this course the student is taught how to move on the stage, both in mime and regular acting. The purpose is mainly to overcome self-consciousness and to help the student in self-expression. Offered in the fall term.

THEATER ARTS—(2)—SPEAKING ON THE STAGE—*Three hours a week.* Mr. Butman.

A course in which the student is taught how to use his voice on the stage, both as a formal speaker and as an actor. Training is given in dramatic speaking, verse reading, and public speaking. Offered in the winter term.

WEEKEND WORKCAMPS—Mr. Hetzel and Mr. Richie.

Students electing this course will spend two weekends participating in the work of renovating houses in certain areas in Philadelphia, or in the Weekend Institutional Service Units of the American Friends Service Committee as volunteer workers in a psychiatric hospital. Consultations with expert social workers and discussion within the group will promote an interest in and an understanding of social problems. Offered in the fall and winter terms.

Student Government

THE STUDENTS' ASSOCIATION is made up of all undergraduates at Haverford College. The College Administration has delegated to the Students' Association—and the Association has accepted—the responsibility for nearly all aspects of student conduct and of student organizations on the campus. The main instrument for exercising this unusual degree of self-government is the Students' Council, composed of elected representatives from each class.

The Students' Council is both an executive and a judicial body. It handles all phases of the administration of regulations of the Students' Association. On the campus the Council manages extracurricular activities, exclusive of athletics, and allocates to each organization a percentage of the Student Activities Fees.

The presidency of the Students' Council is the most important undergraduate office at Haverford. The President represents the student body before the Board of Managers, the College Administration, and the Faculty. He serves both as liaison officer and as executive. He conveys to the College Administration the recommendations of the Students' Council in disciplinary matters.

Honor System

THE HONOR SYSTEM at Haverford is based on the belief that students can successfully take the responsibility of establishing and maintaining standards in social and academic life. In the academic area the Honor System stipulates that one should distinguish clearly between one's own work and material from any other source. Since examinations are not proctored at Haverford, suitable conduct is required by accepted code. In the social area the guiding principle is respect for the reputation of women guests and of the College.

THE HONOR PLEDGE is called to the attention of each applicant for admission to Haverford College:

"I hereby accept the Haverford College Honor System, realizing that it is my responsibility to safeguard, uphold, and preserve each part of the Honor System and the attitude of personal and collective honor upon which it is based."

Specifically, each student who enters Haverford pledges himself to uphold three responsibilities under the Honor System: (1) to govern his own conduct according to the principles which have been adopted by the Students' Asso-

ciation; (2) in case of a breach of the Honor System to report himself to the Students' Council; (3) if he becomes aware of a violation by another student, to ask the offender to fulfill his pledge by reporting himself. If the offender refuses, the student is pledged to report the matter to the Students' Council. In this manner each individual becomes personally responsible for the successful operation of the entire Honor System.

There are several ways in which the Honor System contributes to the quality of student life at Haverford. There is educational value in considering carefully the factors which make standards necessary and in deciding as a group what standards and regulations are needed in a college. It follows that a large degree of self-government is made possible since students are willing to respect those standards which they themselves have set up. At the same time Haverford successfully meets its responsibility to the community by maintaining an acceptable level of conduct. With his privileges and responsibilities more clearly defined, a Haverford student enjoys a freedom which contributes to the atmosphere of integrity and mutual confidence that prevails at the College.

Each entering student must feel confident before selecting Haverford that he can give his active support to the Honor System. He should realize that its success, which is of great importance to him personally and to the whole student body, and indeed to the College itself, depends upon his willingness to give it his complete support.

Student Committees

THE HONOR SYSTEM COMMITTEE is responsible for introducing the Honor System to incoming students. It also makes periodic evaluations of how the System works.

THE ADVISORY COMMITTEE ON COLLECTION SPEAKERS makes suggestions on possible speakers for the College and arranges for interested students to meet with these visitors.

Various other Committees are appointed by the Students' Council according to existing needs.

Student Organizations

THE PUBLIC AFFAIRS ASSOCIATION is an organization of men interested in political, economic and sociological affairs. It includes as subsidiary groups a chapter of the Intercollegiate Conference on Government and the Political

Forum which is responsible for bringing speakers on current affairs in these fields to the campus.

THE INTERNATIONAL CLUB, founded in 1954 by an exchange student, offers opportunities for Haverford students to become acquainted with customs in foreign countries.

THE W. W. COMFORT DEBATING SOCIETY elects to membership men who have shown a consistent interest in debating, and who have represented the College on more than one occasion. Every year a series of intercollegiate debates is conducted.

THE DRAMA CLUB, in conjunction with the Bryn Mawr College Theatre, produces on the average three major plays a year, alternating between the Bryn Mawr and Haverford stages. The workshop of the Club, with lectures and discussions on all vital aspects of play production, is open to all regardless of previous experience.

THE HAVERFORD COLLEGE GLEE CLUB, the chief musical organization of the College, is open to all students who have a love of music and enjoy singing. A schedule of trips and joint concerts with choruses of the principal women's colleges is planned each year, often including a concert tour during Spring vacation. The Club presents major choral works as well as numbers for male voices. Rehearsals are held twice weekly.

THE ORCHESTRA is a combined enterprise with Bryn Mawr College. All students playing orchestral instruments are invited to get in touch with the Director, Dr. William Reese. Concerts of orchestral music are presented during the year and the Orchestra often participates with the Glee Club in the performance of major choral works.

Smaller ensemble groups for chamber music are fostered at both colleges. There is opportunity for instrumental study with noted teachers at nearby music institutions.

THE BAND plays at football games, pep rallies, and on a few other occasions.

THE RADIO CLUB operates the College radio station, WHRC. Members of the club arrange programs, operate the station, and build or buy necessary equipment. The studios are located in the third floor of the Union Building.

THE PHOTOGRAPHIC CLUB promotes interest in photography and has the use of a dark-room and equipment located in Leeds Hall.

THE VARSITY CLUB of Haverford College, organized in 1936, is composed of undergraduates who have won varsity letters. Its purpose is to advance the interests and ideals of the College through athletics.

DEPARTMENTAL CLUBS. There are at Haverford various departmental groups which arrange for outside speakers, hold discussion sessions, sponsor demonstrations, plays, and social gatherings. Among these are the French Club, German Club, Spanish Club, Philosophy Club, Psychology Club, the Mathematics Club, Biology Club, and Chemistry Club.

THE PEACE ACTION FELLOWSHIP attempts to stimulate student thinking on pacifism. Activities are designed to explore non-violence both in theory and in its relevance to specific areas of conflict.

Joint Faculty and Student Groups

THE COMMITTEE ON STUDENT AFFAIRS is a joint committee made up of members of the faculty and undergraduates. It is charged with supervising the arrangements for social affairs on campus, and with reviewing the budgets of various recognized student organizations.

THE CAMPUS CLUB is an association of graduates, faculty members, undergraduates, and friends of the College who are interested in maintaining and increasing the beauty of the College campus.

Student Publications

THE HAVERFORD NEWS is a weekly newspaper, distributed to all undergraduates and faculty members and sent to all members of the alumni body. It is published on Fridays, during the college year, by undergraduates. There are opportunities for all interested men on both editorial and business staffs.

THE HAVERFORD COLLEGE HANDBOOK is published each fall under the auspices of the Students' Council. It contains information particularly valuable to new students.

THE RECORD is published annually by the Senior class, with the financial support of the Students' Association. It includes a record of the year, with particular emphasis upon the activities of the graduating class.

THE HAVERFORD REVUE is a magazine devoted to student literary efforts. It is published approximately twice a year.

Health Program

THE HAVERFORD COLLEGE HEALTH PROGRAM is under the direction of the College Physician, who holds office hours at the Infirmary at stated hours and is available in any emergency. Also available to all College students by appointment at the College Infirmary, is a qualified Psychiatrist. The advice and help of expert medical consultants may be obtained readily at the Bryn Mawr Hospital. When necessary, additional consultants are obtained from one of the University Hospitals in Philadelphia. The College Nurse is on duty at the Infirmary at all times.

Each student is required to have a complete physical examination by his own physician before entering the College and each year before returning to campus. Follow-up examinations are given when indicated by the College physician. Chest x-rays are made available each year for the entire student body. Influenza Vaccine is recommended and given to the entire student body each year, at no additional cost to the student.

Each student is entitled to unlimited dispensary service, at stated hours, and first-aid service at any time.

In case of illness, each student is entitled to two weeks of residence in the Morris Infirmary each semester, ordinary medicine, diagnostic laboratory work, and x-rays needed for diagnosis, and the services of the College physician and resident nurse.

Students will be charged \$5.00 a day for residence in the Infirmary after their first two weeks. Day students will be charged for board in addition, while in the Infirmary.

Each student is also covered by a blanket accident policy which pays actual expenses resulting from any accident up to a limit of \$500.00 for each accident. The expenses covered include x-rays, medicine, surgical appliances, hospital bills, nursing care, physician's fee, surgeon's fee, and also dentist bills for repair or replacement of natural teeth as a result of an accident, subject to the approval of the College physician. The coverage is in force from 12:01 A.M. Standard Time three days before the date when registration of entering students begins until midnight three days after Commencement Day.

All of these services are covered by the Unit Fee which is paid by all students (see page 27).

The Infirmary, presented by John T. Morris, '67, contains ten beds, a surgical room, an isolation ward for contagious diseases, its own kitchen, and accommodations for a resident nurse. Every provision has been made for medical and surgical treatment of all cases among students during the college year. The danger of infection through illness in the college dormitories is thus minimized.

Library, Laboratories, and Other Academic Facilities

The Library

THE HAVERFORD COLLEGE LIBRARY is planned and developed with the primary purpose of providing the intellectual resources of books, periodicals, and pamphlets needed to sustain the work of the academic curriculum. Most of the volumes have been selected by the teaching faculty, and, with the exception of some special collections described below, the books and periodicals are all on open shelves and readily accessible for over ninety hours a week during the college year. In the administration of the Library, the aim is to bring the resources of the book collection as effectively as possible into the academic life of the College.

Beyond this primary purpose, the Library seeks through several collections to provide opportunities for independent research in certain fields. Most notable of such collections is the Quaker Collection, which attracts many visiting scholars each year. The Government Depository and International Documents Collections provide extensive resources for independent study in the social sciences, and there are further collections of autograph material, orientalia, and particularly of Renaissance literature offering similar research opportunities in other fields.

The Haverford Library contains about 211,000 volumes, and holds subscriptions to over 700 literary and scientific periodicals. Though designed especially for the use of students and faculty of the College, the Library welcomes outside readers who wish to consult the books, and, under certain restrictions, may grant them special borrowing privileges. The Library is open on week-days from 8:00 A.M. to 11:00 P.M., and on Sundays from 2:00 to 11:00 P.M. (Treasure Room: Week-days — 9:00 - 5:00; Saturdays — 9:00 - 12:00). Special hours are arranged for vacation periods.

The Library building, the first portion of which (the present north wing) was built in 1863, has grown by five successive additions. The construction of a new Stack in 1941 has assured room for growth of the book collections for several years to come. In December 1952 the original north wing was renovated in memory of William Pyle Philips, and now forms a bright and comfortable room for quiet study. There are also four special reading rooms in the building:

THE GUMMERE-MORLEY MEMORIAL READING ROOM, decorated and equipped by the Class of 1892, provides a reading and browsing room for Haverford students.

THE MICROMATERIALS READING ROOM, equipped with microfilm and microprint readers and a microfilm file of *The New York Times* from 1939 to the present.

THE RUFUS M. JONES STUDY, a replica of Rufus Jones' own study, with his own books and furniture, is used for seminar classes in philosophy as well as for quiet reading.

THE TREASURE ROOM, provided through the generosity of Morris E. Leeds of the Class of 1888, contains the Quaker Collection as well as other rare books and special collections.

Special Collections

THE QUAKER COLLECTION, containing approximately 20,000 books and 40,000 manuscripts, maps and pictures of interest to the Society of Friends, provides a repository for Quaker literature in the United States, and makes Haverford a vital center for the study of the history and philosophy of Quakerism. The unique nucleus of the library is *The William H. Jenks Collection of Friends' Tracts*, mostly of the seventeenth century, which numbers about 1500 separately bound titles.

THE RUFUS M. JONES COLLECTION ON MYSTICISM contains almost a thousand books and pamphlets from the fifteenth century to the present day.

THE TOBIAS COLLECTION OF THE WRITINGS OF RUFUS M. JONES is practically complete. It consists of 168 separate volumes and 16 boxes of pamphlets and extracts.

THE CHARLES ROBERTS AUTOGRAPH COLLECTION contains more than 20,000 items, embracing autographs of the signers of the Declaration of Independence, authors, statesmen, scientists, ecclesiastics, and monarchs, and also several series of valuable papers on religious and political history.

FRENCH DRAMA OF THE ROMANTIC PERIOD, a collection of several hundred popular plays produced in Paris between 1790 and 1850. The collection was presented to the College by William Maul Measey.

THE CHRISTOPHER MORLEY COLLECTION OF AUTOGRAPH LETTERS comprises about 200 letters and memoranda selected by Mr. Morley from his correspondence files. Over one hundred contemporary authors are represented.

THE WILLIAM PYLE PHILIPS COLLECTION contains more than seventy-

five rare books and manuscripts, mostly of the Renaissance period. Among the treasures of this collection are first editions of Dante, Copernicus, Spenser, the King James Bible, Milton, Newton, and the four folios of Shakespeare.

THE HARRIS COLLECTION OF ANCIENT AND ORIENTAL MANUSCRIPTS contains over sixty Hebrew, Greek, Latin, Arabic, Syriac, and Ethiopian rolls and codices collected by J. Rendel Harris.

Affiliations

Haverford maintains a cooperative arrangement with Bryn Mawr and Swarthmore whereby the facilities of the libraries of all three colleges are open to the faculty and students of each of the colleges.

THE PHILADELPHIA BIBLIOGRAPHICAL CENTER AND UNION LIBRARY CATALOGUE, the largest regional cooperative catalogue in America, enables users of the Haverford Library to locate books in over one hundred and seventy libraries of the Philadelphia area.

THE LIBRARY ASSOCIATES is an organization of graduates and friends of the College, devoted to increasing the usefulness of the Library. It serves to bring the facilities of the Library to wider notice and to make them available to the whole Haverford community; to encourage the making of gifts to the Library; and to aid in the use of the Library for exhibition purposes. Inquiries should be addressed to The Library, Haverford College.

Scientific Laboratories

THE WILLIAM J. STRAWBRIDGE MEMORIAL OBSERVATORY is equipped with three equatorially mounted telescopes, a 10-inch and a 4½-inch refractor, and a 6-inch reflector; a reflecting telescope with 8-inch mirror and altazimuth mounting; a meridian circle telescope of 3¾-inch aperture; a zenith telescope of 2¼-inch aperture; a spectrohelioscope; an astrographic mounting provided with two 4-inch Ross lenses and a 4-inch guiding telescope; sidereal clocks, a chronograph, and other instruments. The astronomical library is housed in the Observatory.

THE LYMAN BEECHER HALL CHEMISTRY LABORATORY is a three-story structure with working space in the various laboratories for about two hundred and fifty students. Separate laboratories are available for general chemistry and qualitative analysis, quantitative analysis, organic chemistry, qualitative organic analysis and organic synthesis, semimicro quantitative analysis, and physical chemistry respectively. In addition two rooms are devoted to the needs of research students. Books and periodicals dealing with

chemical subjects are housed in a comfortably furnished library on the first floor which is open to the students.

THE HILLES LABORATORY OF APPLIED SCIENCE houses the Engineering Department. This modern building contains classrooms, drawing rooms, a departmental library, shops, and mechanical and electrical laboratories.

Exceptional facilities for observing the practical side of the work are offered by the many manufacturing companies in and near Philadelphia and frequent inspection trips are made.

SHARPLESS HALL is occupied on the two lower floors by the Department of Physics. Here are situated the departmental library, laboratories, darkrooms, shops, and rooms for individual work. The Department has well equipped laboratories for advanced work in electronics, X-rays, atomic, nuclear and high energy Physics. Recent grants have greatly expanded the precision electronics laboratory, and a loan of a sizeable quantity of uranium from the United States Atomic Energy Commission has made possible the construction of a sub-critical water-moderated nuclear reactor.

The upper floors house the Biology and Psychology laboratories, and the Biology library.

The Biology facilities include a new laboratory (the construction of which was subsidized by the Carnegie Corporation) for introductory cellular Biology, a general laboratory for microbiology and biochemistry and three well equipped, modern laboratories for senior research in cellular physiology, comparative biochemistry, and physiological genetics.

The Psychology Department has a number of individual rooms for student experimental research projects and facilities for housing animals for laboratory work.

Natural History Collections

THE NATURAL HISTORY COLLECTIONS, presented to the College by a considerable number of interested friends, are displayed in Sharpless Hall through a gift of the Class of 1915.

Archaeological Collection

THE BETH SHEMESH MUSEUM on the third floor of Sharpless Hall exhibits the archaeological finds by the late Professor Elihu Grant during a series of field excavations at the site of that name in Palestine. These materials reveal the life of a typical Near East community in the many aspects of its development and interplay with other people over a span of 2000 years. Thus, the collections provide a laboratory for study of the cultural cross-currents which met in Palestine during one of the great formative periods of civilization.

Art Collection

A permanent art collection, including paintings and drawings by Homer, Inness, Pintorricchio, Sargent, Turner, and Whistler, is displayed in the Library.

Temporary exhibitions of paintings, drawings, and photographs are held from time to time at the College.

Framed reproductions of outstanding paintings and a few originals are available for loan to students at the beginning of each semester.

Music Collection

In addition to a considerable collection of music scores, including the complete works of several composers, and books in the general Library, the special equipment of the Music Department consists of several pianos and a collection of scores, books, and phonograph records presented in 1933 by the Carnegie Corporation. This record collection has served as the basis for further acquisitions which are used for teaching and study purposes.

THE ALFRED PERCIVAL SMITH ROOMS in the Haverford Union are reserved for music study. There is a larger room with a Steinway Grand for the holding of classes and informal concerts organized by the Music Department, and the Music Department office in which a small library of valuable books, scores and records is kept.

The larger concerts are held in Roberts Hall where a Steinway Grand and a Schlicker portable pipe organ are at the disposal of artists.

THE HAVERFORD COLLEGE FRIENDS OF MUSIC is an association of friends and neighbors of the College and faculty members, who, in cooperation with the Music Department, arrange a series of chamber music concerts which are held at various times during the year in the Common Room.

Campus

THE ARBORETUM AND THE WOOLMAN WALK, the latter the gift of Edward Woolman, '93, contain a wide variety of woody plants, both indigenous and exotic, thus permitting direct observation and study by students of the natural sciences.

THE MARY NEWLIN SMITH MEMORIAL GARDEN, which adjoins the south side of the Library, while primarily developed as a decorative feature, contains a wealth of flowering shrubs of interest to the botanist.

The Bucky Foundation

THE BUCKY FOUNDATION, which has as its goal the promotion of a spiritually grounded political and economic order, supports various efforts of the College to prepare students to assume a responsible role in society.

Income from the Foundation has been used to sponsor a Constructive Citizenship program and for the training of students through the Relief and Reconstruction Unit. It is being used to support Haverford participation in a program of week-end work-camps and community service.

Fellowships, Prizes and Honors

Fellowships

THE CLEMENTINE COPE FELLOWSHIP was established in 1899. The income is applied to "assisting worthy and promising graduates of Haverford College in continuing their studies at Haverford or at some other institute, in this country or abroad, approved by the Board of Managers. Candidates shall be nominated by the College Faculty to the Board of Managers."

The Faculty will nominate a First Cope Fellow and a Second Cope Fellow whose individual stipends, not to exceed \$1,000, will be determined by the Board.

Applications for the Clementine Cope Fellowship must be in the hands of the President before February 28, accompanied by whatever statement of extracurricular activities the candidate considers relevant.

Prizes

(All prizes awarded in books are marked with appropriate bookplates. As soon as possible after the award a list of standard books from which selection is to be made should be submitted for approval to the head of the department awarding the prize. Books selected from the approved list may then be ordered through the College Business Office. The College grants an average discount of ten per cent on prize books, and supplies and bookplates.)

ALUMNI PRIZE FOR COMPOSITION AND ORATORY.—A prize of \$50.00 was established by the Alumni Association in 1875 to be awarded annually for excellence in composition and oratory. Competition is open to Freshmen and Sophomores, but the same man may not receive the prize twice. The competition for this prize is administered by the Department of English.

JOHN B. GARRETT PRIZES FOR SYSTEMATIC READING.—A first prize of \$50.00 and a second prize of \$25.00 will be given at the end of the Junior or Senior year to the two students who, besides creditably pursuing their regular course of study, shall have carried on the most profitable program of reading in a comprehensive topic during a full college year.

Candidates for these prizes must register with the chairman of the department under whose supervision the work will be performed. The department is responsible for guiding the work and reporting the achievement to the Committee on Fellowships and Prizes for final judgment. Either or both of these prizes may be omitted if, in the judgment of the Committee, the work does not justify an award.

Interested students should apply directly to a relevant department for information.

THE CLASS OF 1896 PRIZES IN LATIN AND MATHEMATICS.—Two prizes of \$10.00 each, in books, to be known as "The Class of 1896 Prizes in Latin and Mathematics," were established by the bequest of Paul D. I. Maier of the Class of 1896. They are awarded at the end of the Sophomore year to the students who have done the best work in the departments concerned.

THE LYMAN BEECHER HALL PRIZE IN CHEMISTRY.—A prize of \$100.00 was established by the Class of 1898 on the twenty-fifth anniversary of its graduation, in honor of Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917.

This prize may be awarded to a student who has attained a high degree of proficiency in Chemistry and who shows promise of contributing substantially to the advancement of that science. It may be awarded to a Junior, to a Senior, or to a graduate of Haverford College within three years after graduation. It may be awarded more than once to the same student, or it may be withheld.

THE CLASS OF 1902 PRIZE IN LATIN.—A prize of \$10.00 in books, is offered annually by the Class of 1902 to the Freshman whose work in Latin, in recitation and examinations combined, shall be the most satisfactory. At the discretion of the professor in charge of the Department, this prize may be omitted in any year.

THE DEPARTMENT PRIZES IN MATHEMATICS.—A first prize of \$30.00 and a second prize of \$20.00 are awarded on the basis of a three hour examination on selected topics in Freshman Mathematics. The examination is held annually on the first Monday after the Spring Recess, and is open to Freshmen only.

ELLISTON P. MORRIS AND ELIZABETH P. SMITH PEACE PRIZES.—These have been combined for the year 1958-59 into a single competition offering three awards of \$200.00, \$100.00 and \$50.00 respectively. It is open to all undergraduates and to graduate students.

The prizes are awarded for the best essays bearing on the general topic of "Means of Achieving International Peace." Essays should be deposited with the Registrar before May 1. The judges shall be appointed by the President of the College.

Prizes will not be awarded if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

PRIZES IN PHILOSOPHY AND BIBLICAL LITERATURE.—A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory

outside reading in Philosophy in connection with the courses in that Department.

A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory reading on the Bible and related subjects.

THE SCHOLARSHIP IMPROVEMENT PRIZES.—A first prize of \$50.00 and a second prize of \$45.00 are awarded at the end of the Senior year to the two students who, in the opinion of the judges appointed by the President of the College, show the most steady and marked improvement in scholarship during their college course.

THE FOUNDERS CLUB PRIZE.—A prize of \$25.00 is offered and awarded annually by the Founders Club to the Freshman who is judged to have shown the best attitude toward college activities and scholastic work.

THE S. P. LIPPINCOTT PRIZE IN HISTORY.—A prize of \$100.00 is offered annually for competition in the Department of History under the following general provisions:

First—Competition is open to Sophomores, Juniors, and Seniors who have taken or are taking work in the Department of History.

Second—The prize shall not be awarded twice to the same student.

Third—The prize may be withheld in any year if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

Fourth—An essay of not less than 5,000 words, written in connection with course or Honors work in History, or independently of course work, treating a subject selected with the approval of a member of the History Department, shall be submitted as evidence of scholarly ability in the collection and presentation of historical material. It shall be typewritten and deposited with the Registrar before May 1.

THE NEWTON PRIZE IN ENGLISH LITERATURE.—A prize of \$50.00 established by A. Edward Newton may be awarded annually on the basis of Final Honors in English, provided that the work of the leading candidate, in the judgment of the English Department, merits this award.

THE WILLIAM ELLIS SCULL PRIZE.—A prize of \$50.00, established in 1929 by William Ellis Scull, '83, is awarded annually to the upperclassman who shall have shown "the greatest achievement in voice and in the articulation of the English language." This prize is administered by the Department of English.

THE GEORGE PEIRCE PRIZE IN CHEMISTRY OR MATHEMATICS.—A prize of \$50.00 in memory of Dr. George Peirce, '03, is offered annually to a student of Chemistry or Mathematics "who has shown marked proficiency in either or both of these studies and who intends to follow a profession which calls for such preparation. Preference is to be given to a student who has elected organic chemistry, and failing such a student, to one who has elected Mathematics or some branch of Chemistry other than organic. Should there be two students of equal promise, the one who is proficient in Greek shall be given preference." The prize is offered, however, exclusively for students who have expressed the intention of engaging in research.

EDMUND J. LEE MEMORIAL AWARD.—Classmates of Edmund Jennings Lee, '42, who lost his life in the service of his country, have established in his memory a fund, the income from which is to be given annually to that "recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extracurricular activities, spiritual growth, or college spirit in individuals or in the College as a whole during the year. The Award is to be used in continuing to render such service."

THE WILLIAM W. BAKER PRIZE IN GREEK.—A prize of \$25.00 in books, established in 1954 in memory of William W. Baker, Professor of Greek at Haverford College from 1904 to 1917, is given "in the study of Greek," and is administered by the Greek Department.

THE KURZMAN PRIZE IN POLITICAL SCIENCE.—A prize of \$125, established in 1958 by Harold P. Kurzman, is awarded annually for the senior who has performed best and most creatively in political science, except when in the judgment of the department no student has done work of sufficient merit to warrant such award.

THE THERESA HELBURN PLAYWRITING AWARD.—These awards, open to all students of Bryn Mawr College, are given by Theresa Helburn to encourage playwriting. The prize consists of \$100.00 for the best full-length play and \$50.00 for the best one-act play submitted each year and considered worthy. Original work is required; adaptations, translations and collaborations are not eligible. Haverford students in playwriting may submit manuscripts for these awards.

THE JOHN G. WALLACE CLASS NIGHT AWARD. A silver cup to be awarded annually to the Best Actor in the Class Night performances.

HAVERFORD NEWS 50TH ANNIVERSARY AWARDS.—Three prizes established by a former editor of the HAVERFORD NEWS to be awarded annually at Commencement for a period of five years (1959-1963); 1) To that staff of

the NEWS which carries out the best editorial project of the academic year, \$50; 2) To a NEWS staff member for the best report of a public lecture given on the campus, \$25; 3) To a NEWS staff member for the best account of a sports event, \$25.

Honor Societies

PHI BETA KAPPA.—The Haverford College Chapter of the Phi Beta Kappa Society of America was chartered in 1898 as Zeta of Pennsylvania. Election of members-in-course, Alumni members, and Honorary members, based upon scholarly attainment and distinction, takes place at the end of the academic year. *President*: Wilmot R. Jones, '23; *Vice-President*: Archibald MacIntosh, '21; *Secretary*: Harry W. Pfund, '22; *Treasurer*: Holland Hunter, '43.

FOUNDERS CLUB.—The Founders Club was established in 1914 as a Haverford organization of students, alumni, and Faculty. Election to its membership is recognition of a sound academic record combined with noteworthy participation in extra-curricular activities. Undergraduate elections are usually limited to the Junior and Senior classes. *President*: William L. Rhoads, 3rd, '50; *Vice-President*: Robert W. McConnell, Jr., '40; *Treasurer*: F. Thomas Hopkins, '49; *Secretary*: Jonathan H. Collett, '60.

Honors

Honors are of two kinds: *Honorable Mention* in a single course and *Final Honors* for work in the major department.

Honorable Mention in a single year course will be awarded at the end of the Freshman or Sophomore year, or at the end of the Junior or Senior year in any course outside a student's major field, for acceptable work in that course and additional work in the total amount of not less than seventy-five hours. Candidates for *Honorable Mention* must obtain a minimum average of 85 in the regular work of the year course and may be required to pass an examination on the additional work. Two courses of one semester each in the same department may be construed as a single course.

A student who has received the prescribed grade in the regular work of a course required for *Honorable Mention*, but who has not done the additional work required in connection with that course, may do so with the consent of the professor in charge during the succeeding year.

Final Honors are designed to provide stimulation for capable students to undertake and carry through academic work of high quality. The Faculty

has agreed that three indications of such high quality work on the student's part are: first, a broad and thorough understanding of his major field; second, within the range of his honors work a knowledge more profound than would normally be expected; and third, understanding of the relationship of his major field to other areas of human experience.

A student who is considered by his major department to have the ability to become an honors candidate is invited to do so and is informed of the nature of the honors work expected as early in the course of his major work as is convenient. Although the nature of honors work varies from department to department, some work outside of the regular course work in the department, preferably along lines of the student's particular interest, may be required. The honors candidate may gain some time for this extra work by devoting one or more project courses to it in his Senior year.

Three grades of Final Honors are awarded: *Honors*, *High Honors*, and *Highest Honors*.

Honors are awarded at the discretion of the major department to honors candidates who meet the qualifications and may, under exceptional circumstances, be awarded to students who have done excellent departmental work even though they have not undertaken honors work as such.

High Honors and *Highest Honors* are awarded by the Faculty. Candidates for honors whose work has been outstanding are invited by the department to take a public oral examination, conducted by an examination committee under the chairmanship of the major supervisor and including at least two examiners from fields other than the candidate's major. If this committee so recommends, the Faculty may award High or Highest Honors. In general, Highest Honors are reserved for students who have demonstrated both breadth and depth of scholarship.

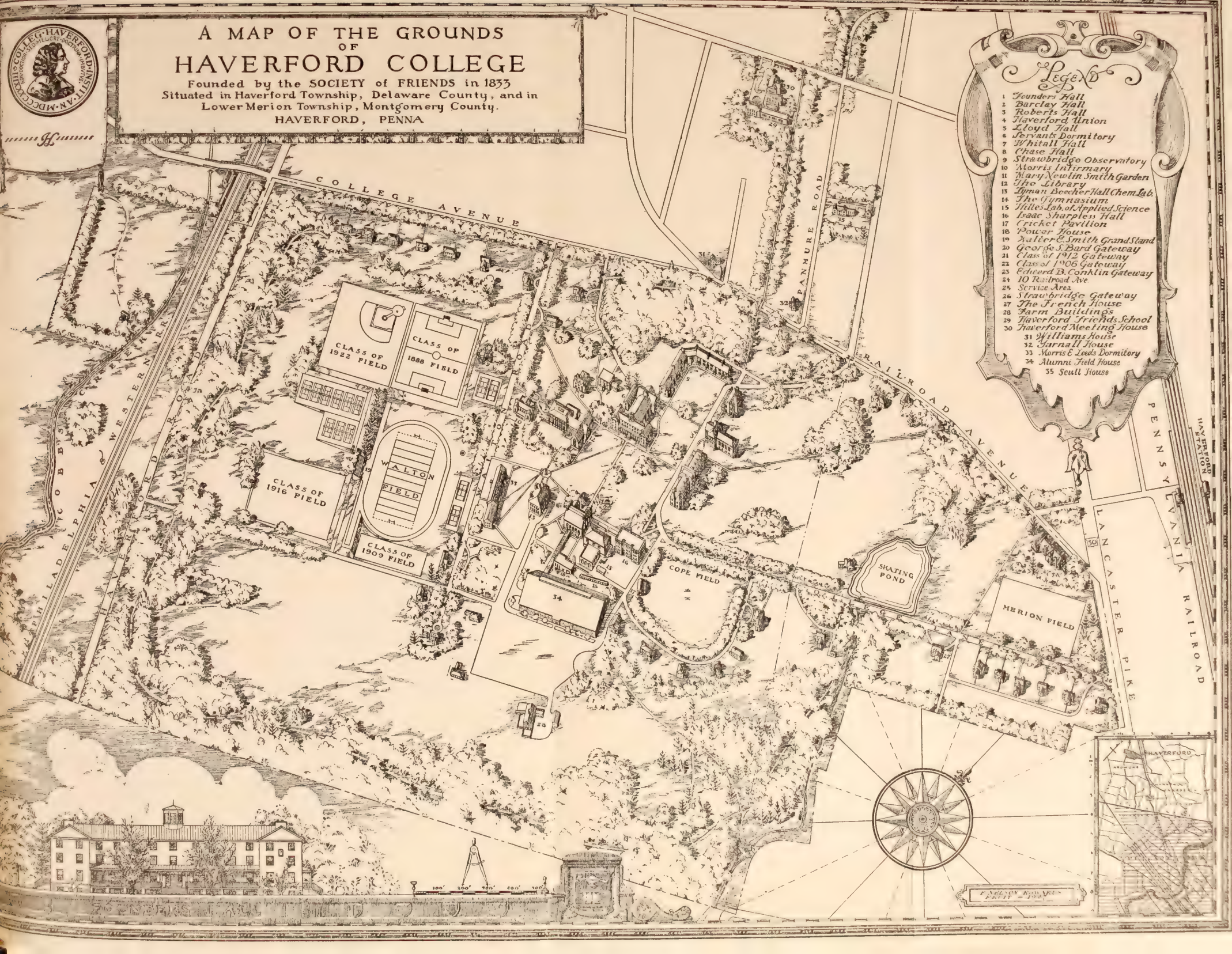
INDEX

	PAGE
Academic Council	16
Academic Facilities	106-110
Accident Insurance	28, 105
Additional Courses	42
Administration, Officers of	15
Admission—Advanced Standing	26
Admission—Examinations	24-26
Admission—Graduate Students	45
Admission—Requirements for	23-24
Affiliations, Library	108
Alumni Associations	118-123
Anthropology	95-97
Archaeological Collection	109
Art Collection	110
Arts and Service Program	98-100
Astronomy	49
Athletic Fields	81
Autograph Collection, Charles Roberts	107
 Bachelor's Degree	 36-40
Beth Shemesh Museum	109
Biblical Literature	50-51
Biology	51-54
Board of Managers	7-8
Board Charges	27
Bryn Mawr College, Cooperation with	44, 108
Bucky Foundation	111
 Cabinetmaking	 98
Campus	110
Campus Club	104
Chemistry	54-56
Classics	56-58
Clubs, Undergraduate	103-104
Collection	45
Collections, Library	107-108
College Calendar	5
College Entrance Board Tests	23-26
College Program	17
College Responsibility	28
Committees—Board of Managers	8
Committees—Faculty	16
Community Service	98
Comprehensive Major Examination	39-40
Conflicting Courses	42

	PAGE
Corporation—Officers of	6
Corporation—Standing Nominating Committee	6
Course Numbering	48
Courses of Instruction	47-97
Curriculum	36
Debating	103
Developmental Reading	41, 90
Dramatics	103
Economics	58-61
Engineering	61-64
English Language and Literature	64-67
Evaluation of Academic Performance	43
Examinations for Admission	23-26
Expenses	27-28
Faculty—Members of	9-15
Faculty—Standing Committees of	16
Faculty-Student Groups	104
Fees and Special Charges	27-28
Fellowships—Clementine Cope	112
Fellowships—Thomas Wistar Brown	45
Fellowships, Prizes, and Honors	112-117
Field House	21, 81-82
Financial Arrangements	27-29
Founders Club	116
Free Electives	38
French	91-93
Freshman Program	40-41
General Courses	67-68
German	68-70
Glee Club	103
Graduate Study	45-46
Graduate Fellowships	45
Greek	57
Gymnasium	81-82
Health Program	105
History	70-73
History of Art	73-74
History of Haverford College	20-21
Honor Pledge	101
Honor Societies	116
Honor System	101-102

	PAGE
Honors—Rules for	116-117
Humanities General Course	67
Infirmary	105
Intercollegiate Cooperation	44
 Junior Year Abroad	 44
 Laboratories	 108-109
Latin	57
Lectures and Lectureships	44-45
Library	106-108
Library Associates	108
Library Lectures	45
Limited Electives	37-38
Loan Fund, Student	29
 Machine-tool Work	 99
Major Concentration	38-40
Managers, Board of	7-8
Master's Degree	45-46
Mathematics	74-76
Meeting, Friends	20
Modeling and Sculpture	99
Modern Iron Sculpture	99
Monthly Payment of College Bills	28-29
Music	76-78
Music Appreciation	99
Music Collection	110
 Natural History Collections	 109
Non-Academic Electives	38, 81, 98
 Observatory	 108
Orchestra	103
 Painting and Graphic Arts	 99
Phi Beta Kappa Society	116
Philips Visitors	14-15, 44-45
Philosophy	78-81
Photography	99
Physical Education	81-82
Physical Science General Courses	67-68
Physics	82-85

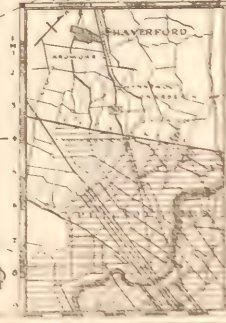
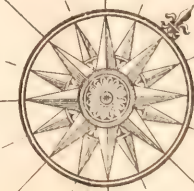
	PAGE
Political Science	85-88
Prizes—List of	112-116
Professions, Preparation for	41-42
Psychology	88-90
 Quaker Collection	 107
Radio Communication	100
Reading and Recording for the Blind	100
Reading, Developmental	41, 90
Regulations	42-43
Resources	21
Romance Languages	91-94
Rooms	27
Russian	94-95
 Scientific Laboratories	 108-109
Scholarships—List of	30-35
Shipley Lectures	45
Sociology	95-97
Spanish	93-94
Special Cases	43
Special Diets	28
Special Collections, Library	107-108
Speech	41, 100
Student Activities Fee	27
Student Aid	29
Students' Association	101
Student Committees	102
Students' Council	101
Student Government	101-102
Student Loan Fund	29
Student Organizations	102-104
Student Publications	104
Swarthmore College, Cooperation with	44, 108
 Theater Arts	 100
Treasure Room, Library	106
Tuition	27
Tuition Plan	29
 Unit Fee	 27
University of Pennsylvania, Cooperation with	44
 Visitors and Lectures	 44-45
 Weekend Workcamps	 100
Woolman Walk	110



A MAP OF THE GROUNDS OF HAVERFORD COLLEGE

Founded by the SOCIETY of FRIENDS in 1833
Situated in Haverford Township, Delaware County, and in
Lower Merion Township, Montgomery County.
HAVERFORD, PENNA

- ### Legend
- 1 Founders Hall
 - 2 Barclay Hall
 - 3 Roberts Hall
 - 4 Haverford Union
 - 5 Lloyd Hall
 - 6 Servants Dormitory
 - 7 Whitall Hall
 - 8 Chase Hall
 - 9 Strawbridge Observatory
 - 10 Morris Infirmary
 - 11 Mary Newlin Smith Garden
 - 12 The Library
 - 13 Tynan Teacher Hall Chem Lab
 - 14 The Gymnasium
 - 15 Hilles Lab. of Applied Science
 - 16 Isaac Sharpless Hall
 - 17 Cricket Pavilion
 - 18 Power House
 - 19 Walter C. Smith Grand Stand
 - 20 George J. Bard Gateway
 - 21 Class of 1912 Gateway
 - 22 Class of 1906 Gateway
 - 23 Edward B. Conklin Gateway
 - 24 Railroad Ave
 - 25 Service Area
 - 26 Strawbridge Gateway
 - 27 The French House
 - 28 Farm Buildings
 - 29 Haverford Friends School
 - 30 Haverford Meeting House
 - 31 Williams House
 - 32 Farnall House
 - 33 Morris & Leeds Dormitory
 - 34 Alumni Field House
 - 35 Scull House



HAVERFORD COLLEGE BULLETIN



THIS ISSUE CONTAINS THE
REPORT OF THE PRESIDENT
1958-1959

VOLUME LVIII

NUMBER TWO

October, 1959

REPORT OF THE PRESIDENT

*presented at the
Annual Meeting of the Corporation
of Haverford College*

October 20, 1959

125th ANNIVERSARY CELEBRATION

ALMOST exactly a year ago, the first of a series of several lectures and meetings was held commemorating the founding of the College one hundred and twenty-five years earlier. The first of these events was an intimate lecture by Frank Morley on his brother Christopher's first and still unpublished novel, "The Secret of the Abandoned Mine." Alumni Homecoming Day was preceded by a witty, illustrated talk by Professor Emeritus Dean P. Lockwood on "Haverford College of the Past" and by a talk by the President of the College on its future.

At a special 125th Anniversary Convocation, on October 28, 1958, the College conferred honorary degrees upon two distinguished members of the Society of Friends. Elizabeth Gray Vining, author of *Friend of Life: a Biography of Rufus Jones*, an exciting and stimulating study of that great teacher, was awarded the degree of Doctor of Humane Letters. The College was proud to have this distinguished Quaker authoress as its first woman to receive an honorary degree. The degree of Doctor of Humane Letters was also given to Professor Emeritus Levi Arnold Post, a graduate of the class of 1911 and outstanding scholar and teacher of Greek at the College for forty years. Following the conferring of degrees, Elizabeth Gray Vining spoke on "Rufus Jones and the Ends of Education." The Convocation was also addressed by Dr. Henry Pitney Van Dusen, President of Union Theological Seminary, on the subject "Re-thinking Religion and Education."

Two days later, Sir John Neale, Astor Professor of History, Emeritus, at the University of London and outstanding authority on Queen

Elizabeth, addressed an enthusiastic audience on the topic "The Elizabethan Age."

One of the high points of the series of meetings celebrating the College's 125th anniversary was the symposium held on November 1, 1958 on the topic "The Intellectual: his privileges and responsibilities." The members of the panel were outstanding representatives of the intellectual world. President Victor L. Butterfield, of Wesleyan University, represented the humanities and the point of view of a college administrator. Dr. Robert M. MacIver, Professor Emeritus of Sociology from Columbia University, was a worthy exponent of the social scientist's approach to the contemporary problems facing the intellectual. Professor Isador I. Rabi, Nobel Prize winner in Physics and professor at Columbia University, spoke for the scientists but added breadth and insight to the whole discussion. Professor Ira DeA. Reid, Professor of Sociology at the College, acted as moderator.

The series of special events was concluded by a lecture by Professor William A. Fowler, of the California Institute of Technology, on "The Origin of the Elements." The combination of these talks and special meetings left a lasting impact on over two thousand persons who attended them and on the intellectual climate of the College. They also acted as a challenge for the years ahead.

The second outstanding event of the year was Commencement on June 5, 1959. At that time the College awarded one hundred two Bachelor of Arts and Bachelor of Science degrees in course to members of the graduating class and eight additional Bachelor's and One Master's degree to members of previous classes. Two honorary degrees were also awarded. A Doctor of Laws was bestowed upon Dr. En Shui Tai, a graduate of the College in the class of 1924 and outstanding Christian leader and medical doctor in China and Hong Kong. Professor Frederick B. Tolles, Howard M. Jenkins, Professor of Quaker History and Research and Director of the Friends Historical Library at Swarthmore College, also received the degree of Doctor of Letters. The Commencement address was delivered by Professor Reinhold Niebuhr, of Union Theological Seminary. The Commencement exercises were held for the first time in the Alumni Field House, which afforded greater seating capacity for the relatives and friends of the graduates.

ACADEMIC YEAR 1958-59 IN RETROSPECT

The past academic year was one in which progress was made toward developing a better and stronger institution as well as toward a beginning in important planning for the future. In the first place, both the Faculty and Administration reached a better understanding of their mutual problems and developed an extraordinarily satisfactory working arrangement through the operation of the newly constituted Academic Council. The Council not only made recommendations to the President on matters of appointments and promotions in the faculty but also studied the relationship of the administrative organization of the College to the over-all educational process.

In the second place, the Academic Council took the initiative in the formation of a committee to study the interrelated problems connected with the future of the College. Realizing that Haverford College, like all institutions of higher learning, had an obligation to justify the policy it now follows or may adopt in the future, two members of the Faculty, Professor Howard Teaf, Chairman of the Economics Department, and Professor Aaron Lemonick, Chairman of the Physics Department, were appointed to work with the President on a study of "The Future of the College." As a first step in preparation of its report, in the spring this committee spent several days at each of four colleges which had recently been faced with problems of expansion and which at the same time were known to be interested in maintaining their high quality of education. These were Wabash, Wesleyan, Amherst, and Hamilton colleges. Material collected at these institutions as well as detailed information assembled about Haverford itself served as the background for a report which the committee expects to complete in the next few days. Unfortunately, our original plan to have it completed by October 1 proved impracticable. The Report analyzes the most important factors affecting the College today concentrating on what we believe to be the three chief problems facing the College. They are: What responsibility has the College toward meeting the pressures created by an anticipated doubling of students in college in 1970 and by an increasingly short supply of college teachers? Secondly, how can the College maintain and improve its quality of education? Thirdly, how can the College meet the financial strains that will face it in the next decade? The Resources

and Development Committee of the Board of Managers, the Faculty, and the Board as a whole will be given copies of this report for study. It is hoped that this report will assist the College in making the right decision on the future policies of the College. I can not over-emphasize the extent of the contribution Professors Teaf and Lemonick have made at every stage of the Report's preparation. The College is greatly in their debt, particularly in view of the fact that this preparation encroached heavily into their summer vacation and free time this fall.

Another step toward planning for the future was the decision of the College and Board of Managers to have a careful study made by a competent architect of the present physical facilities of the College to discover what our immediate and long-term needs might be. Consequently, early in the summer the architectural firm of Vincent Kling was asked to make such a study. This study of the uses of our campus and of our various physical facilities has just been completed and will also be presented to the Board of Managers in the immediate future. It clarifies our needs for dormitory space and science facilities. The College is also taking preliminary steps to discover our potential financial resources, facts which are essential for sound future planning. In other words, material will soon be at hand which will greatly facilitate the making of firm decisions on the most important aspects of the College in the future.

There have been a few important changes in the administration of the College during the past year. Vice President Archibald MacIntosh returned from a leave of absence at the beginning of the second semester and was on hand for the final selection of the Freshman class. A valuable addition was made to our medical office with the appointment of Dr. Peter Bennett as the College's psychiatrist.

A highlight of the past year in the Development Office was the initial publication of "Haverford Horizons" a quarterly designed to bring the College to its alumni and friends.

Toward the end of the year we were fortunate to secure as Director of Information, Richard D. Kubik, a journalism major at Ohio State University, with broad experience in newspaper reporting, editorial writing, and publicity work. He has undertaken his new duties

with energy and imagination, and we are confident that he will contribute a great deal to making Haverford more widely known and better understood.

The Development Office has cooperated with Bennett S. Cooper, Alumni Secretary, in arranging meetings with local Haverford clubs. He and other representatives of the College have met with Alumni in thirteen cities from Seattle to Los Angeles to Boston. Walter C. Baker, Vice President for Development, spoke at four of these and I spoke at three. From these meetings it was clear that the interest of our Alumni in their college, one of our most valuable assets, remains at a high level.

In the national scene, the College, together with Bryn Mawr and Swarthmore, took the lead in opposing the provision of the National Defense Education Act of 1958 which required all students who applied for a loan from the federal government to sign both a disclaimer affidavit and a loyalty oath. The College took the position that the requirement to sign a disclaimer affidavit was contrary both to the basic principles of Friends as well as to the freedom of belief and conscience. While an amendment to drop the disclaimer affidavit clause from the Act failed to pass the Senate by a close vote, the position of the Three Colleges was widely respected and supported throughout the country.

The College continued to receive recognition for its position of academic quality by various special grants made to it. A special grant from the Danforth Foundation was made available to our Faculty members wishing to study during the summer. The National Science Foundation also gave the College a grant for experiments in joint student-faculty research. The College was selected by the Carnegie Corporation to be one of five institutions to select students for a special study program in Russian language in this country and in the Soviet Union.

THE FACULTY

As in the past few years, the College has suffered several severe losses through the death of some of its retired and active members as well as through normal retirement. It is with deep regret and per-

sonal loss that I report the death of two beloved members of the Faculty: Dr. Frank D. Watson, who served the College for thirty-five years as Professor of Sociology from 1914 to 1949, returned again for a year after retirement and continued to be one of the leaders of Haverford Friends Meeting, passed away on February 22, 1959. Dr. John A. Kelly first came to the College as an instructor in German in 1920 and became Emeritus Professor of German thirty-five years later. In apparent good health and vigor, he consented to assist in the instruction of German and began teaching in September, 1958. He died suddenly on March 24, 1959. His loss is felt not only by his colleagues on the Faculty but by those of us who were his former students.

The College also suffered from the retirement of two of its oldest Faculty members. Professor Alfred J. Swan was first appointed as Lecturer in Music in 1926. Five years later he was among the first members of the Faculty to be on joint appointment with Swarthmore which continued until 1958. Last year he devoted all of his time to Haverford College, contributing greatly to everyone's appreciation and enjoyment of the music which he loved so dearly. We regret his retirement, but are happy that he will continue to be living on the campus. Professor John W. Flight also retired at the end of the academic year. At that time, he completed thirty full years of service to the College as Professor of Biblical Literature. His warm personality, his deep interest in students under his charge and his devotion to the College will long be cherished and remembered.

The continued number of resignations and consequent need for new appointments on the Faculty reflects the fact that good faculty personnel are becoming more and more difficult to obtain and that there is a national scarcity of well qualified teachers. Of the resignations of three professors at the end of the year, that of Professor Lawrence W. Wylie was the greatest blow to the College. Professor Wylie was first appointed Instructor in French in 1943. He was Professor of Romance Languages and Chairman of that department when he resigned to accept appointment as the Dillon Professor of French Civilization at Harvard University. While we all recognize that this new appointment was a singular honor for Professor Wylie, we could not help but realize that Harvard's gain is our loss. We also deeply

regret the resignations of Professor David K. Harrison, in Mathematics, and Professor Arnold A. Rogow, in Political Science, after they had taught only one year at the College.

In view of the changes made necessary by these resignations and other openings on the Faculty, both the Faculty and Administration devoted much time to the problem of selection of new faculty members. Eleven new appointments were made for the present year. Of these, M. Jacques Maries, of Montpellier University in France, as Lecturer in French and Professor Milton Sacks, from Brandeis University, as Visiting Lecturer in Political Science are interim, one-year assignments. Eight new Assistant Professors were appointed as follows: James O. Brooks, from the University of Michigan, and Louis Solomon, from Bryn Mawr College, in Mathematics; John H. Davison, from the University of Rochester, in Music; Jay H. Gellens, from Yale University, and James W. Harper, from Princeton University, in English; Ernest J. Prudente, in Physical Education; Howard B. Ranken, from the University of Pennsylvania, in Psychology and John P. Spielman, from the University of Michigan, in History. Professor Bradford Cook, formerly from Riverside College in California, was appointed Associate Professor of French to fill the vacancy created by Professor Wylie's resignation. Dr. Alvin H. Hansen, Professor Emeritus of Economics of Harvard University, and Dr. Martin Foss, who retired a year ago from the Philosophy Department, are teaching for the first semester to replace professors on leave of absence.

The new appointments this year will, we are confident, not only keep our Faculty as strong as in the past but give it even better quality. A conscious attempt has been made to hold down the size of the Faculty. In comparison with last year the net increase was only one person for one-third time. With the increasing scarcity of qualified college teachers and continually rising costs, the President's office is fully conscious of the necessity to resist the tendency toward expanding personnel in departments and in the faculty as a whole. It is believed that any detriment which such a policy might bring to the quality of the College's education can be more than counter-balanced by closer cooperation with Bryn Mawr and Swarthmore through exchanged registrations and joint faculty appointments.

The College continues to be proud of the excellent work of our Faculty in the classrooms, in the laboratories, and in research and writing. Strong emphasis is placed on the importance of teaching in a liberal arts college like Haverford and the caliber of this teaching continues to improve. Many of the Faculty are consulted by other institutions and by foundations on problems of teaching and curriculum planning.

The research grants which members of the Faculty have received in the past year, in addition to awards made from the Faculty Research fund established by the Board of Managers, are most impressive. The grants made to the three members of our Biology Department, Professors Loewy, Santer and Finger, from the National Institutes of Health, the National Science Foundation, and the Research Corporation amount to over \$120,000 to be expended over a period of five years. Professor Russell R. Williams, Chairman of the Chemistry Department, is carrying on research under a grant from the Atomic Energy Commission. In fact, practically all of the members of the science division of the faculty have research funds. Other Faculty members also are working on special projects sponsored by the Rockefeller Foundation, the Brookings Institution, and other nationally known foundations and research organizations. Special awards to three of our Faculty members last year should be mentioned. They are a grant from the Guggenheim Foundation to Professor Holland Hunter, a National Science Foundation grant for a year's study to Professor Robert Wisner, and the invitation to Professor Louis Green to be a Visiting Professor at the Max Planck-Institut für Physik und Astrophysik at Munich, Germany, during the summer of 1959.

It is equally difficult to select for special mention the research accomplishments of the Faculty from their long list of Publications appearing elsewhere in this Report. Perhaps four of these deserve special note. They are: Professor Cletus Oakley's *Fundamentals of Freshman Mathematics*, a revised and enlarged edition of an important work written in conjunction with Professor C. B. Allendoerfer; Professor Russell R. Williams' *Principles of Physical Chemistry* in conjunction with William H. Hamill; Professor F. Ajzenberg-Selove's *Energy Levels of Light Nuclei VI* in collaboration with T. Lauritsen; and Professor Wallace MacCaffrey's *Exeter 1540-1640*.

CAMPUS LIFE

Except for a rate of attrition during the academic year which we hope can be reduced in the future, the past year was most successful. Practically all of the members of the senior class completed their course work, passed their comprehensive examinations, and graduated. The general morale and attitude of the students toward their studies and toward the College as a whole was noticeably higher than in the past.

From the students' point of view, the most important issue on the campus during the year was whether or not undergraduate membership should continue in the two societies, Triangle and Beta Rho Sigma. During most of the year, the students' views on the "fraternity issue" were confined to discussions in a special administration-student-alumni committee established to review the matter. After these discussions were concluded, I announced on April 14, 1959 that the present policy of permitting limited undergraduate membership in the societies would continue. Immediately thereafter the issue became the subject of open debate. Following procedures set forth in the constitution of the Students Association, a student petition was circulated and an election held by the Students Association on the question of whether or not Beta Rho Sigma and Triangle should continue on the undergraduate level at the College. The results of the election were overwhelmingly against such continuance.

Consequently, after careful and thorough consideration by the leading administrative officers of the College, I reported to the Board of Managers at its meeting on May 22, 1959, that unless decisive action were taken on the matter, the issue would continue to be a seriously divisive force on the campus. Hence it was recommended to the Board that "no further elections be held for undergraduate membership in either Beta Rho Sigma or Triangle." The Board approved this recommendation on condition that this decision be presented to the members of these two organizations by the President of the College before any public announcement was made. This procedure was followed in June, and the full statement of policy adopted by the Board of Managers was published in the first edition of the Administration's new publication, *Haverford Horizons*. The matter of working out ways of

implementing the new policy in a manner acceptable to all concerned has yet to be solved but we anticipate no difficulties in this connection.

The College opened in September 1959 with an enrollment of four hundred fifty-six undergraduates, from thirteen foreign countries and thirty-three different states. Because the present Senior Class is smaller than usual, the entering Freshman Class of one hundred thirty is about five per cent larger than those of recent years. To obtain this class, one hundred ninety-three acceptances were issued. The application list for the present Freshman Class was smaller than that of last year, being a little under 600. The decrease is probably due to our requiring an application fee for the first time. Nevertheless the applicants were of higher quality and their extra-curricular accomplishments in their schools and communities were more impressive than ever before. This quality is reflected in the caliber of the class which has already had its impact on the campus.

THE STRAWBRIDGE OBSERVATORY

The Strawbridge Observatory continues its useful function for both the College and the community. Its director, Professor Louis Green, has, as noted above, already received international recognition for his special knowledge in astro-physics. Last year the Observatory was not visited by as many persons as in the past. This fact is probably the result of the Observatory having been open to the public on only three nights throughout the academic year with an average attendance of about thirty persons a night. We believe, however, that the use of the Observatory by our friends and neighbors continues to make an important educational contribution to the neighborhood.

PLANT, BUILDINGS AND GROUNDS

The Alumni Field House has again proved to be a tremendous asset to both our physical education program and to the College as a whole. As mentioned elsewhere in this Report, it served as the gathering place for two of the meetings connected with the 125th anniversary and also was used for the first time for our Commencement exercises. The use of the dirt floor section has proved most helpful on occasions such as Parents Day and Alumni Day when visitors and

students alike have been able to sit down without crowding and without concern for the weather to a college-prepared meal.

One of the most important additions to our physical plant was the installation of a fire sprinkler system throughout all of Founders Hall. We are most grateful that this has been installed with enthusiastic approval of the Board of Managers and are confident that Founders will thus be able to serve us in good stead for many years to come.

A minor physical change, but one which we hope may avoid serious accidents in the future, has been the widening of the Strawbridge Memorial Gate entrance on Lancaster Pike.

I am again pleased to report to the Corporation that we are continuing our program of constant care of our trees. We are now in the third year of systematic pruning and spraying and hope that this effort of time and substance will result in our maintaining for many years to come one of our most beautiful and impressive assets. It is always gratifying to hear visitors from both abroad and other parts of the country remark on the beautiful condition in which the campus is kept and the impressiveness of our trees.

ANNUAL GIVING

Annual Giving has continued to make substantial gains over previous years and our goal of \$150,000 was exceeded by nearly \$5,000 as a result of generous gifts from alumni, parents, and other friends. As before, the Development Office has been successful in widening the basis of our support. There has been an increase in the number of contributors, but the dollar gains have been proportionately higher than the increase in number of donors. Of the 2,135 contributors, more than a third increased their contributions over those of the preceding year.

We are now geared to thinking of Annual Giving as a living endowment, not only as a sort of slogan but as an actual part of our budgeting process. The funds on which we can reasonably depend thus serve as an extension of our endowment, strengthening thereby all of our mutually dependent operations.

Annual Giving will not produce everything for which a college like Haverford should aspire. New buildings, endowed chairs, and major scholarship funds will not come to us in this way. We must plan carefully for these other necessities. The Annual Giving program can, however, elicit the interest of Haverford's many friends in what the College is accomplishing and has a central role in a development program.

I would like to express my personal gratitude and that of the College to Arthur R. Kane, Jr., '36, for the accomplishments of the past two years under his chairmanship and to wish the new chairman, Laird H. Simons, Jr., '39, every success as the new drive toward a goal of \$170,000 gets under way.

With a continuance of the type of support we have been receiving over the past two years from the Alumni and friends of the College, with the devotion to teaching and scholarship of our Faculty and with the extraordinarily fine group of students that they have to work with, the future of the College should be even brighter than in the past. While the studies which we are making ourselves about the College, or are having made for us, are not fully completed, the Administration of the College, the Board, and the Faculty are in a far better position than at any time during my administration to make wise and convincing decisions for the future. In other words, I am confident that we have collected enough material, made sufficient comparative studies and analyzed our own problems to such an extent as to assure a bright future. In the light of this information, problems such as the role Haverford should play in a world demanding education for more people and how a liberal arts college like ours can maintain or improve the quality of its education without financial suicide will not seem insoluble. On the other hand it will be a challenge to try to solve them better than anyone else and produce a college which outstrips even our fondest dreams.

HUGH BORTON

STATISTICS FOR REPORT OF THE PRESIDENT
1958-1959

ENROLLMENT

Fall Semester, 1955	465
Spring Semester, 1956	456
Fall Semester, 1956	458
Spring Semester, 1957	441
Fall Semester, 1957	455
Spring Semester, 1958	458
Fall Semester, 1958	458
Spring Semester, 1959	434
Fall Semester, 1959	452*
* <i>Undergraduate Students</i>	449
* <i>Special Students</i>	3

COMPOSITION OF THE STUDENT BODY,
FALL SEMESTER, 1959

The student body represents 33 states. The following foreign countries are represented: Argentina, Cuba, Germany, Holland, Hong Kong, Hungary, India, Indonesia, Japan, Liberia, Netherlands, Antilles, Sweden and Switzerland.

Students who are members of the Society of Friends number 50, or 12 percent of the total enrollment, and 61 students, or 14 percent of the total enrollment, are sons of Alumni.

REGISTRATION IN ACADEMIC COURSES

<i>Department</i>	<i>Registration (Fall & Spring Semesters)</i>									
	Fall, 1959	58-59	57-58	56-57	55-56	54-55	53-54	52-53	51-52	50-51
Astronomy	49	74	56	63	49	76	76	86	53	40
Biblical Lit. ...	47	132	78	105	86	71	53	69	65	61
Biology	113	266	234	318	318	185	201	189	225	164

REGISTRATION IN ACADEMIC COURSES

<i>Department</i>	<i>Registration (Fall & Spring Semesters)</i>									
	Fall, 1959	58-59	57-58	56-57	55-56	54-55	53-54	52-53	51-52	50-51
Chemistry	150	268	279	366	382	410	422	399	362	344
Classics	56	(Greek & Latin)								
Economics	122	271	269	228	227	243	230	168	280	267
Engineering . . .	23	43	64	46	57	46	63	68	54	70
English	296	650	700	605	637	673	660	761	744	823
French	81	220	245	251	253	225	208	202	180	190
Geography						13	19	21	31	27
German	112	246	206	209	166	180	218	233	223	179
Greek (now Classics)		39	27	27	31	31	22	42	62	47
History	153	283	269	237	184	209	218	210	230	271
History of Art.	35	50	56	50	70	69	73	58	52	26
Latin (now Classics)		28	44	74	34	38	25	33	14	8
Mathematics . .	175	333	330	333	307	284	316	292	333	275
Music	41	90	64	39	31	45	33	36	25	34
Philosophy	188	351	306	317	334	348	390	386	372	463
Physics	105	206	192	138	188	156	125	158	129	152
Political Science	159	248	297	231	290	274	260	341	334	253
Psychology	54	149	286	127	169	175	236	195	230	287
Russian	41	48	16	11	15	12	23	32	27	11
Sociology	136	243	172	142	129	114	139	115	128	110
Spanish	40	70	85	105	98	95	111	114	104	104
<i>General Courses</i>										
E. Asian Studies (now Hist.	37-38) 60									
Humanities . . .	53	135	139	201	165	181	97	132	139	147
Physical Science	3	20	30	—	—	58	56	84	77	47
Social Science .				249	250	260	279	287	245	283

HAVERFORD STUDENTS AT BRYN MAWR

Education	1
English	1
Geology	8
History	1
History of Art	5
Italian	1
Music	3
Political Science	1
Russian	4

SWARTHMORE COLLEGE

Music	2
-------------	---

UNIVERSITY OF PENNSYLVANIA

Mathematics	3
Music	1
Physics	2

DEGREES GRANTED, JUNE 5, 1959

B.A.	102
B.S.	8
M.A.	1

COLLEGE VISITORS

1958-1959

Collection Speakers

- C. L. Barber, Professor of English, Amherst College, Member of the New College Plan
- *Ahmed S. Bokhari, United Nations Under Secretary for Public Information
Scott Buchanan, Consultant to the Fund for the Republic
Pearl S. Buck, author
Ralph J. Bunche, Under Secretary, United Nations
- *The Honorable Joseph S. Clark, U. S. Senator from Pennsylvania
Alistair Cooke, journalist, author, host of Omnibus
The Honorable Richardson Dilworth, Mayor of Philadelphia
Paul G. Hoffman, Managing Director of the United Nations Special Fund for Economic Development
Lou Little, former Football Coach, Columbia University
Margaret Mead, anthropologist
John Mehegan, Jazz critic, *New York Herald Tribune*
Frank V. Morley, author and editor
Erwin Panofsky, School of Historical Studies, The Institute for Advanced Study, Princeton University
Leon Saul, Professor of Psychiatry at University of Pennsylvania Medical School
Members of the Savoy Company
- **Dr. Henry P. Van Dusen, President, Union Theological Seminary

Collection Speakers, from the College

- Hugh Borton, President
Gerald Freund, Assistant Professor of Political Science
Dean P. Lockwood, Professor of Latin and Librarian, Emeritus
Francis H. Parker, Associate Professor of Philosophy
Ira deA. Reid, Professor of Sociology

Departmental and General Visitors

- *H. Stanley Bennett, M.D., Professor of Anatomy, University of Washington
Leonard Blumberg, Professor, Chairman, Department of Sociology, University of Pennsylvania
Derk Bodde, Professor of Chinese Civilization, University of Pennsylvania
*Ahmed S. Bokhari, Under Secretary for Public Information, United Nations
Catherine Drinker Bowen, author

- *Dirk Brouwer, Professor and Director of the Yale University Observatory
- Drayton R. Bryant, Director of Community Relations, Philadelphia Housing Authority
- Guy Butler, Professor of English, Rhodes University, South Africa
- *Hadley Cantril, Board Chairman and Senior Counselor, Institute of International Social Research
- *Dorwin Cartwright, Professor and Director of Research Center Group Dynamics, University of Michigan
- *The Honorable Joseph S. Clark, Senior Senator from Pennsylvania
- *Clyde Coombs, Professor of Psychology, University of Michigan
- *Charles A. Coulson, Professor of Mathematics, Oxford University
- *F. H. C. Crick, Member, Unit of Molecular Biology, Cambridge University
- *Don W. Fawcett, M.D., Professor of Anatomy, Cornell University
- *Richard P. Feynman, Professor of Physics, California Institute of Technology
- *William A. Fowler, Professor of Physics, California Institute of Technology
- Abraham Heschel, Professor of Jewish Ethics and Mysticism, Jewish Theological Seminary of America, New York
- William Hinton, Former U.N.R.R.A. worker in China
- *Alan Hodge, Massachusetts Institute of Technology, Department of Biology
- Rolfe Humphries, Lecturer in English and Classics, Amherst College
- *Vernon M. Ingraham, Associate Professor of Biochemistry, Massachusetts Institute of Technology
- Erich Kahler, Princeton University—Visiting Professor
- George F. Kennan, Institute for Advanced Study, Princeton, N. J.
- *Albert L. Lehninger, Professor of Physiological Chemistry, Johns Hopkins University
- H. D. Lewis, Professor of the History and Philosophy of Religion, University of London (Visiting Professor at Bryn Mawr College)
- David Linebaugh, First Political Secretary, U. S. Embassy at Bonn, Germany
- *Alla G. Masevitch, Sternberg Astronomical Institute, Moscow
- Frank Morley, author and editor
- *Edouard Morot-Sir, Cultural Counselor of the French Embassy, Representative in the United States of French Universities
- *Montrose J. Moses, Assistant Professor, Department of Cytology, Rockefeller Institute
- Helmut Motekat, Professor of German Literature, University of Munich, Germany
- Sir John Neale, Astor Professor of English History, Emeritus, University of London
- *Theodore Newcomb, Professor of Psychology and Sociology, University of Michigan
- Frank C. Newman, Professor of Law, University of California, Berkeley
- *George E. Palade, Professor, Department of Cytology, Rockefeller Institute
- *Sanford L. Palay, M.D., Chief, Section of Neurocytology, National Institutes of Health

- *Julian Pitt-Rivers, Visiting Professor of Anthropology, University of Chicago
- *Keith R. Porter, Professor and Member, Rockefeller Institute for Medical Research
- Allyn Rickett, former Fulbright Fellow in China
- Joseph K. Roberts, Jr. Assistant Professor of Government, Barnard College
- D. Patrick Robinson, Assistant Vice-President, 1st Pennsylvania Banking and Trust
- John P. Roche, Dean of Faculty, Brandeis University
- *Allan R. Sandage, Astronomer, Mount Wilson and Palomar Observatories
- *Roy Schafer, Chief, Psychology Department, Department of Psychiatry, Yale University Medical School
- *Martin Schwarzschild, Higgins Professor of Astronomy, Princeton University
- J. P. Shaloo, Professor of Sociology, University of Pennsylvania
- George E. Silver, Director, Department of Social Medicine, Montefiore Hospital, New York
- *Andrew Szent-Gyorgyi, Established Investigator, American Heart Institute for Muscle Research
- *Henry Taube, Professor and Head of Department of Chemistry, University of Chicago
- *J. Herbert Taylor, Professor of Cell Biology, Columbia University
- *Albert W. Tucker, Professor and Head of Department of Mathematics, Princeton University
- *Harold C. Urey, Professor of Chemistry, University of California
- John Wild, Professor of Philosophy, Harvard University
- T. E. Williamson, Assistant Secretary, Ministry of Health, Great Britain
- Paul Yeager, Federal Mediation and Conciliation Service
- *Paul C. Zamecnik, M.D., Professor of Oncologic Medicine, Harvard University
- **Philips Visitor*
- ***Tilney Fund Lecturer*

REPORT OF THE LIBRARIAN

1958-1959

In a backward glance over the past academic year in the Library, the months seem to have been spent—I suspect that much college library administration is at present of this nature—primarily in what the war-time vernacular called a “holding operation”—with encouraging advances to report on several minor fronts.

Vast increase in available resources in every field of learning, a faculty with the imagination and vitality to seek always to open new paths to lead the student to frontiers in each field, and from all this the consequent demands for expert bibliographical and administrative library techniques—these are factors which call for adventurous development of the rôle of librarianship at Haverford today. A beloved Haverfordian once called the Haverford Library our “intellectual powerhouse,” in part an apt and a just description. Yet in the liberal arts college today the library must be still more than that. It must provide the resources, the “power,” the food for thought for the academic curriculum, and then it must do more. We don’t ask the students to go to the powerhouse to keep warm on the chilly nights, but we must hope that they will find the Library building not only the raw materials of knowledge, thought, and scholarship but also other things: enlightened, illuminating, expert guidance into the world of books, for one thing—and I repeat my sincere conviction that guidance of this kind is an exceedingly rare commodity in America today. For another thing, a bright, congenial meeting-place for the student *and* the book. There must be ample room for quiet study, on a campus where the dormitory rooms seem not always to provide the best atmosphere for it. Ideally the Library owes our students still more than this—a staff of broad and varied culture, fond and knowledgeable of the inside of books as well as of the outside; a comfortable room where recorded music can be heard, and recorded languages, literature, and poetry; more typing rooms; more rooms for seminars, conferences, and specialized study.

I say all this because I have seen that it can become ominously easy to look on a college library as a bookhouse, a sort of cross between

Leary's and the Penn Fruit, where certain wood-pulp commodities are checked out and checked in on a sort of self-service basis. Whereas I believe one can justly say that there are two things that rest right at the heart of an academic curriculum—a teacher with knowledge gladly to impart, and a student with a book. I suspect that there is no great scholar in the world today who could not trace his first awakening to a great teacher, and, perhaps thanks to that teacher, to the magic of a book that fell into his hands at the right place, at the right time.

Put very simply, the ultimate job of the Library at Haverford today, as I see it, is to find every possible means to be there, with imagination and foresight, at the meeting-place of the student and the book.

But to come to the incidental advances of the past year:

COLLECTIONS

Our Library books were in unusually busy circulation last year, as the statistics appended to this report will indicate. In almost all departments, of general borrowings, reserve book loans, and inter-library loans, the resources of the Haverford Library were in heavier use last year than they have been for many years previously.

The Library collections themselves were significantly enlarged by 3,160 catalogued volumes on general library funds, and there is the happy prospect now of notable development in some special directions. From Philips Funds, for example, a fixed budget of \$2000 has been set for the current year for the purchase of rare books, an educational and cultural objective which William Pyle Philips had much in mind as he gave thought to Haverford's future. Other gifts, mentioned in fuller detail below, have added substantially to our strength, especially in psychology, in diplomatic history, and in the works of our own Christopher Morley.

In another aspect of the growth of the Library's collections good progress has been made in the past year—in the discarding of many books and periodicals no longer needed in our Library. I wish there were a more favorably connotative word for the process, a process as vital to library growth as pruning is to a shrub. "Creative selection,"

perhaps? In any event, granted that we keep well in mind our responsibility not to weaken Philadelphia library holdings as a whole—and we do consult with the Union Library Catalogue before any discard is made—granted this, what we must aim for is as excellently representative a liberal arts collection as we can achieve, for our faculty to assemble our students to browse in. And this means continuing attention to see that our collections are as free as can be of the superficial study, the superseded text, and the work that will be simply wasteful of the time of the student who seeks the truth. This report would not be complete without recognition of the thoughtful reviews which have been given to their collections by the Departments of Astronomy, Chemistry, Economics, Engineering, and History, and which are currently being carried out in Mathematics and Psychology.

ADMINISTRATION

Last year's Library Report had the lugubrious obligation to state that it had become necessary to make more systematic and stringent our policies regarding book-borrowing, both within and outside the College walls. Such work is undertaken with heavy heart, since our clear resolve and objective is the fullest, freest possible circulation of our resources to the immediate Haverford community, to the larger Haverford fellowship, and indeed, where our contribution can be meaningful, to the academic world at large. Sterner disciplinary measures are necessitated only at the point where heedlessness or willful unfairness on the part of some borrowers reaches the point where it actually deprives other readers of fair access to our resources, and this point, alas, was reached last year and the year before.

To meet this problem, a scheme of disciplinary action was devised whereby the Librarian deals with each student violation of Library procedures where a penalty of two weeks' probation or less seems warranted; for offenses where the Librarian recommends a heavier penalty, the matter is referred with that recommendation to the Dean. For student borrowers from nearby high schools and preparatory schools we have adopted a policy whereby the school itself is asked to vouch for the character of any of its students wishing to use our Library; the school furthermore undertakes full responsibility for that student's conduct as he uses our Library resources.

One's first impression is that these disciplinary measures have been effective, and at present writing it seems justified to entertain at least a pious hope that that impression is not illusory.

Of the first year of operation of a unified Circulation and Reserve Book Desk in the Library, it can be reported that the unification has brought a marked gain in efficiency of Library administration. In a year of substantially larger demands on book-circulation, it has been possible with the unified desks both to control the circulation procedures effectively and to make new work-assignments which have assisted greatly in various other aspects of Library operation.

STAFF

1958-1959 was also the first year of operation of the Haverford Fellowship in Library Science, whereby we can bring to our staff each year a trained librarian from overseas. Our first year's experience with this program has been a thoroughly happy one, and abundantly warrants the continuation of the Fellowship in future years. It brings to our staff each year a librarian whose training has been gained in a broader and richer cultural context than that which is associated with much library-science professional training in America. In addition, it brings our staff the stimulus of a new and different point of view toward library procedures and toward the world of books. Such stimulus and such variety of cultural background is a distinctive asset of our present library staff at Haverford. We prize it highly, and are aware of its especial value in an educational profession which, as I have sought to indicate above, is unduly susceptible to interpretation as a trade to be staffed with supermarket clerks.

The first holder of the Fellowship in Library Science was Miss Carla Craik, who came to us on a year's leave from her post as librarian of the Institute of Chartered Secretaries in London. This year's Fellow is Miss C. Hilary Ferrand, a graduate in modern languages of the University of Edinburgh and, in library science, of the graduate School of Librarianship, University College, London.

Two other staff changes are to be reported as we move into a new academic year. Miss Elizabeth Dana has resigned from her posi-

tion as Reserve Book Room supervisor to take up a double assignment as housewife and as librarian of Miss Fine's School in Princeton. Mrs. Bjorg Miehle, formerly of the University of Pennsylvania library staff, has taken on the Reserve Book Room supervision on a part-time appointment, an appointment which realizes at last our long-standing desire to have a librarian of professional training at the Circulation and Reserve Desks. To assist in the supervision of the Treasure Room and Quaker Collection, Mrs. Bessie Orr Haakinson has been appointed on a nine-months basis for the current year.

PHYSICAL PLANT

The major improvement in the Library's physical well-being in the past year has been the thorough refinishing of the floors in the periodicals, circulation, and reference areas of the building. The result has been considerable brightening of those areas and much greater ease of maintenance.

A very heavy thunderstorm in the past summer broke through the roofing at the junction of the old and new Library buildings, with a damage to our book collections which it will cost approximately \$200 to repair. Otherwise the recently resurfaced roofing of the Library stood proof against the elements.

The major physical need of the Library at this time remains that of air-conditioning. Philadelphia summers are not noted for their coolness or freshness of climate, and the Library building catches far more than its share of oppressive humidity. There are many days in the summer when the atmosphere in the Library is such as to make staff work and readers' study virtually impossible.

GIFTS

The generous donations of books and funds by countless friends of the Library are a constant source of encouragement, and a major resource in strengthening our collections. The following list, necessarily selective and illustrative rather than complete, mentions only some thirty-three donations, from a record which totals well over one hundred for the past year.

From Seymour Adelman, Jr., four very rare 18th and early 19th century Quaker documents, none of which was previously present in our Quaker Collection.

From Henry S. Africa, eight books and thirty-seven pamphlets in American and general history.

From Andrew S. Berky, Librarian of the Schwenkfelder Library, a copy of his *Account of Some Hosensack Valley Mills*.

From Prof. Robert Butman, a copy of the *Memorials of Deborah, Hannah, and Jonathan Evans* (187-?).

From Aldo Caselli, a beatifully bound copy of the 1718 Florence edition of Galileo's works (3 vols.).

From Robert C. Clothier, many miscellaneous pamphlets, society publications, and books.

From Miss Margaret Conklin, a substantial gift of funds for the development of the Haverfordiana Collection.

From John Dixon, two valuable volumes in nineteenth-century religious thought.

From Mrs. Henry S. Drinker, two rare Haverford photographs and a valued genealogy of the Morris family.

From J. Passmore Elkinton, '08, six class letters of the Class of 1908.

From William Bacon Evans, several hundred books given to the College from his personal library.

From Mrs. Arthur Haines, several unusual additions to our Haverfordiana collection and a substantial gift of funds to support the work of the Library.

From Hanford Henderson, '40, two rare volumes in German literature and in bibliography.

From Allen F. Horton, the handsome *Quarto-Millenary* volume of the Limited Editions Club (1959).

[TWENTY-FOUR

From members of the family of the late Elizabeth Blossom Runyon Howe, of Mount Kisco, New York, an excellent collection of letters, photographs, and personal papers of Charles Wood, '70.

From the John Anson Kittredge Educational Fund, \$250 for the purchase of books in foreign relations and in diplomatic history.

From Mrs. Albert D. Lasker, the beautiful volume on French painting, with sixty color plates, *The Albert D. Lasker Collection: Renoir to Matisse*.

From Philip L. Leidy, '16, continued gifts to the Library of many books of current and popular interest.

From Dorothy H. Litchfield, an autographed copy of Langston Hughes' Translation of *Gabriela Mistral*.

From Mrs. Charles A. Mayer, a large collection of books from her son's library in psychology.

From Mrs. Francis Norton Maxfield, an extensive and splendid collection of psychology texts and monographs from her husband's scholarly library.

From R. Alexander Montgomery, a collection of 35 books on guns and fire-arms.

From the estate of Christopher Morley, '10, a large collection of his manuscripts, magazine and newspaper articles, Haverford class notebooks, pamphlets, and memorabilia. This rich collection, together with other recently acquired Morleyana and extensive funds contributed to the Christopher Morley Memorial Fund, make possible the establishment of a Morley Collection of unique value.

From Harold H. Morris, '04, a set of DeGroot's *Religious System of China*.

From Miss Hilda Pape, a collection of 322 volumes, chiefly sets of works on British and European history.

From Charles A. Robinson, '28, a year's subscription to *Jubilee*.

From Jonathan M. Steere, Jr., '38, seven bound volumes of the *Advocate of Peace*.

From Ray S. Tannehill, a long run of the *Annals of The American Academy of Political Social Science*.

From Francis R. Walton, '32, five volumes of studies in the classics.

From Kenneth B. Walton, '22, the exhaustive genealogical study of the Walton family, *Byberry Waltons*, compiled by Norman Walton Swayne.

From William Webb, '13, a photograph album of the Haverford cricket team's tour of England in 1914.

From Mrs. Allison P. Wesley, many books of current interest.

From Charles B. Wilson, '38, a valuable holograph Whittier letter.

From Stacy Wood, a large file of back issues of *Life* magazine.

Again in 1958-1959 Charles N. Welsh, '51, gave abundantly of his time and trained judgment as a reference and research assistant to the staff of our Library. And the Library Associates, under the leadership of their spirited Executive Secretary, Professor Dean P. Lockwood, held four well-attended meetings in our Treasure Room last year, and contributed substantially again to our funds for the purchase of books of current interest.

It is not only fitting but also a sincerely and gratefully felt obligation for the part-time Librarian to express in closing his appreciation to Mrs. Esther Ralph and Mrs. Ruth Reese. It is they who are in fact the continuing and day-to-day executives of the Haverford College Library, and I am keenly aware and appreciative of their conscientious and expert guidance.

JOHN A. LESTER, JR.

STATISTICS FOR REPORT OF THE LIBRARIAN

1958-1959

Growth of Collections

Total number of volumes (as of August 31, 1959)	214,016
Number of volumes added in 1958-1959:	
By purchase.....	2,969
By gift	721
Government Depository	197
Number of books discarded	727

Circulation

Faculty and staff borrowings.....	4,263	
Students	13,618	
Outside borrowers	4,361	
Total		22,242
Books charged out to carrels	838	
Total		23,080

Reserve Book Room

Books put on reserve	4,367
Reserve book circulation:	
Library use	14,957
Overnight	5,029
3-day, 2-week	375
Total	20,361

Interlibrary Loan

Borrowed	310
Loaned	815

REPORT OF THE CURATOR OF THE QUAKER COLLECTION

1958-1959

This year saw the inauguration of a special project in the Quaker Collection which should be of great value to the research scholars who use our Library. With the continued and invaluable help of the Thomas H. and Mary Williams Shoemaker Fund we began a task which we had long hoped to do—the re-cataloging by modern standards of our older and rarer Quaker books. How important such cataloguing can be to scholars was pointed out by Professor William Sloane, of Dickinson College, who spent several days in the Quaker Collection working on a study of what children read in Stuart England and America. When he finished, Professor Sloane wrote a letter of appreciation in which he said, “It is my impression that Quaker books, with their many epistles and testimonies, present more problems of the careful cataloger than any other kind of seventeenth-century material.” We have found this to be true, but we have made a good beginning on this worthwhile task of making our older books easily accessible by bringing their cataloguing up to date. Approximately nine out of ten of our older books, we find, can profit by some revision of their cataloguing, and some of them require extremely detailed treatment to bring out all the necessary information.

This careful attention to the technical needs of scholars coincides with a new development in scholarship in the Quaker Collection. The portion of the income from the T. Wistar Brown Fund, which had been hitherto made available as small scholarships for occasional first-year graduate students, has been designated by the College as the T. Wistar Brown Fellowship for Research in Quaker History. The first holder of this substantial fellowship was Professor Arnold Lloyd, head of the Department of Education in the University of Witwatersrand, Johannesburg, South Africa. Professor Lloyd spent six weeks on the campus in January and February, collecting material on American Quakerism comparable to that which he used in his study of early English *Quaker Social History* (London, 1950). We hope that Professor Lloyd's sojourn at Haverford as a T. Wistar Brown Fellow will be re-

peated by a succession of pre-doctoral or post-doctoral research workers in Quaker thought and history from this country and abroad.

Professor Lloyd was only one of thirty-seven research workers who used the Quaker material or the rare books and manuscripts in the Treasure Room during the year. This number exceeds that of our scholarly visitors of the previous year by something like four times! Further, our inquiries by mail and telephone increased this year by half.

To the appended statistics and lists of gifts and purchases, I should like to add a word as to our acquisition of an unique collection of rare books which came to us from the estate of Charles Evans (1870-1958) of Cinna-minson Township, New Jersey, as the gift of his children, Mary Evans Bethel, Henry C. Evans, '26, and Margaret Cooper Brinton.

The Charles Evans gift consists of ninety different works, some of them in several volumes. A few of them are Quaker books. One is an illuminated Venetian Bible of 1484. But the majority are a collection of American exploration, travel, and Western Americana in which Charles Evans long had a special interest. Among the travelers and explorers whose works he collected are to be found the names of James Adair, the Quaker Morris Birkbeck, Jonathan Carver, Charlevoix, Cox, Davey Crockett, J. C. Frémont, Washington Irving, Lahontan, La-pérouse, Sir Charles Lyell, Alexander Mackenzie, Zebulon Pike, Sir John Ross, George Vancouver, and many others famous in American and Canadian history. These will form a notable addition to Haverford's special collections, and will be most interesting to students and useful to specialists in the history of the West.

GIFTS AND PURCHASES

The following gifts and purchases deserve special notice:

For the Quaker Collection:

From Paul L. Aiken, Jr., '58, a picture of the Friends' Meeting House in Ridgewood, New Jersey.

From Francis R. Bacon, Lansdowne, a copy of the 1959 *Quaker Date Book*. The publishers, Colonial Publishing, Inc., Boston, also presented us with loose sheets of the illustrations of the 1958 edition of this profusely illustrated calendar-diary.

From Lewis Benson, Germantown, Quaker books, two of which contain the autographs of Anthony Benezet and Isaac T. Hopper.

From Arthur R. Brick, Crosswicks, New Jersey, a typescript of his paper read at the spring, 1959, meeting of Friends Historical Association on the history of Crosswicks Meeting.

From Cadbury Brothers, Bournville, Birmingham, England, thirteen pamphlets relating to the labor and social policies of England's largest Quaker chocolate company.

From Professor Henry J. Cadbury, twenty-one Quaker books, pamphlets, broadsides, photostats, pictures and newspaper clippings.

From Warder H. Cadbury, '49, a copy of the *New York Weekly Whig* for June 1, 1839, containing an article about Elias Hicks.

From the estate of Mrs. William H. Collins, Haverford, the membership certificate in the Loganian Society of William H. Collins, '81.

From Hugh Edgerton, '46, a broadside sketch of Third Haven Meeting, Easton, Maryland.

From the Friends Library, London, five pamphlets relating to the Conference on Industry and the Social Order, 1958, and twenty folio sheets containing an inventory of the papers in the John Stephenson Rowntree Collection.

From Charles A. Gauld, Puerto Rico, pamphlets and clippings relating to the activities of various Friends.

From Mrs. Howard Goodwin, Lansdowne, a parchment marriage certificate of Enos Sharpless and Hannah Webster, 1820.

From Professor Theodore B. Hetzel, a photograph of Philadelphia Yearly Meeting, 1957, together with photographs of the Friends present for weddings in the Third Street Meeting House, Media, and at the Haverford Meeting House on Buck Lane.

From Mary Hoxie Jones, Haverford, an autograph letter from Jane B. Rushmore, and a photograph of the Blackstone portrait of Rufus M. Jones.

From Professor Henry J. Cadbury, photographs, formerly belonging to the Friends Meeting on Twelfth Street in Philadelphia, of Lindsay Nicholson (1789-1867) and Samuel F. Troth (1801-1886).

From Ann Gidley Lowry, North Dartmouth, Massachusetts, a pamphlet account of the sufferings of Richard Seller, published in Philadelphia in 1772.

From Margaret Taylor MacIntosh, Haverford, a further addition (on loan) to the Taylor-Allinson Collection.

From the estate of Anne Holden Parker, of Marblehead, Massachusetts, through Rebecca H. Perry of Boston, and Professor Henry J. Cadbury, a manuscript letterbook of Mary Davis, of Dartmouth, Massachusetts, Monthly Meeting, running from the 1820s through the 1850s.

From Wyman W. Parker, Librarian, Wesleyan University, two rare Quaker pamphlets published in Salem, Massachusetts, in 1792.

From Hadassah M. L. Parrott, Mount Airy, three manuscripts relating to Morris E. Leeds, '88, at Haverford and Westtown.

From Henry Perry, Nahant, Massachusetts, through Professor Henry J. Cadbury, a manuscript journal of an account of religious visit made by Hannah Hall in England, Scotland, and Ireland.

From Ethel Rhoads Potts, Germantown, through Lewis and Sally Potts Benson, manuscript letters of English Friends, a manuscript account of Philadelphia Yearly Meeting of 1828 by Samuel Rhoads, and a letterbook of Phoebe Haines.

From Ruthanna Simms, Richmond, Indiana, through Sarah M. Stabler of Wallingford, and Professor Theodore B. Hetzel, a typescript article on "Friends and the Osages."

From Daniel Smiley, '30, Mohonk Lake, New York, a copy of a newspaper editorial concerning the reopening of the old Meeting House in Grahamsville.

From Charles G. Thatcher, Swarthmore, a pamphlet history of the Ozone Club, a group of Quaker golfers in and around Philadelphia.

From Mrs. Arthur H. Thomas, Haverford, fourteen Quaker books and pamphlets from the library of Arthur H. Thomas.

From the library of Lemuel and Edith Tomlinson through Paul S. Lippincott, Mullica Hill, New Jersey, ten Quaker books and two non-Quaker volumes.

From E. E. Trout, Wayne, two letters from John Greenleaf Whittier to Ann E. Wendell, from the estate of Margaret Wendell Hess.

From John L. Wood, '51, a copy of the Philadelphia, 1728, edition of Sewel's *History of the Quakers*, the edition a part of which is thought to have been printed by Franklin and Meredith.

From Mrs. L. Hollingsworth Wood, Mount Kisco, New York, a broadside Epistle of London Yearly Meeting, 1794.

For the Charles Roberts Autograph Collection:

From President Borton, twelve autograph letters of contemporary individuals of prominence.

From Professor Howard Comfort, an autograph letter of Catherine Drinker Bowen, biographer.

From Leonora and Anna B. Hewitt, Philadelphia, letters, diary, and other material relating to the Civil War service of Edward Lukens Hewitt, USN (1843-1914).

From Professor Aaron Lemonick, autograph letters of Sir Joseph John Thomson, physicist, and of the Nobel Laureate in Physics for 1955, Polycarp Kusch.

From Jane A. Rittenhouse, through Professor Leon H. Rittenhouse, autograph letters of H. T. Webster, cartoonist, and Helen Hayes, actress.

From Mrs. Frederic C. Sharpless, Beach Haven, New Jersey, an autograph letter to President Isaac Sharpless, 1895, from Charles Joseph Bonaparte, the grandson of Jerome, King of Westphalia by his American wife, and himself a Baltimore lawyer and civil service reformer.

For the Haverfordiana Collection:

From Vice-President Walter C. Baker, ten pamphlets relating to the Haverford College Development Program from 1949 to 1955.

From Mrs. Maude McCorkindale Bercich, Ontario, California, copies of two letters from John Street, Class of 1861, to his sister in Indiana.

From Ann Tatnall Bettie, Ithaca, and Mrs. Betty Vila, Miami, Florida, photographs of the Haverford campus, and Cricket scrap books of Samuel J. Bettie, '95. The photographs were the originals for illustrations in the 1892 *History of Haverford College*.

From D. Lawrence Burgess, '04, through Irving C. Poley, '04, a watercolor sketch of the campus, showing Founders Hall, the old Observatory and the arbor. The painting was done by Lawrence Burgess' father, Thomas H. Burgess, of the Class of 1858.

From the Dartmouth College Library, five Catalogues of Haverford College ranging in date from the Civil War era to the 'nineties.

From J. Passmore Elkinton, '08, Class Letters of the Class of 1908, for the years 1909-1911 and 1913-1915.

From Professor Dean P. Lockwood, typescript, magnetic tape, and filmstrip of his address, "A Look at Haverford's Past," for the 125th Anniversary Convocation.

From Andrew McInnes, Devon, *A Catalogue of the Officers and Students of Haverford School, for the academical year 1855-6*. This was the last year before Haverford received its charter as a degree-granting college.

From Patricia R. MacKinnon, material relating to the retirement from the Board of Managers of Frederic H. Strawbridge, '87.

From Seth W. Mattingly, of the *Detroit News*, Maxfield Parrish calendars for 1956, 1957, 1958, and 1959.

From Mrs. William B. Meldrum, a photograph of Theodore William Richards, '85 and LLD, 1908, a Nobel Prize Winner in chemistry, 1914.

From Professor Leon H. Rittenhouse, a novel by Professor Albert E. Hancock, *Bronson of the Rabble* (Philadelphia, 1909).

From Frederick R. Wulsin, Cambridge, Massachusetts, letters and papers of Francis Greenleaf Allinson, '76, who was Professor of Classical Philology at Brown University. The papers were part of a collection belonging to the late Mrs. Wulsin, daughter of Professor Allinson.

Purchases of Rare or Unusual Items:

An 1824 autograph letter of Isaac Braithwaite, of Kendall, England, to John Griscom in New York, denouncing Elias Hicks and defending the reputation of his wife, Anna Braithwaite, who as a travelling minister from England had vigorously attacked the doctrines of Elias Hicks.

A 1922 autograph letter of the famous Quaker Speaker of the House of Representatives, "Uncle Joe" (Joseph Gurney) Cannon.

A dime novel, which was located for us by Warder H. Cadbury, '49: Eugene Sue, *King of the Winds: or, The Quaker's Horse*.

Four variant etchings to add to our Robert Spence collection of illustrations for the Journal of George Fox.

A microfilm copy of a Ph.D. thesis at Florida State University, 1957: "John Woolman's Reading," by Walter Forrest Altman.

A letter from John Greenleaf Whittier to Professor Thomas Chase, 1860, declining an invitation to speak to the Literary Society.

THOMAS E. DRAKE

STATISTICS FOR THE REPORT OF THE CURATOR OF THE QUAKER COLLECTION 1958-1959

Visitors to the Treasure Room	1,421
Research workers in the Treasure Room	37
Reference questions answered	78
Manuscripts received	250
Photographs and microfilms received	82
Books received	274
Exhibits prepared	14
Professors using rare books and manuscripts in class	10
Students using rare materials in Treasure Room	15
Meetings and classes held in Treasure Room	12

REPORT OF MORRIS INFIRMARY—1958-59

<i>Dispensary Visits</i>	1958-59	1957-58
Upper respiratory infections	1,126	
Gastro intestinal infections	263	
Vaccines	157	
Influenza vaccines	385	
Allergy	224	
Miscellaneous	1,440	
Total	<u>3,595</u>	3,077

Specialties (above patients)

Fractures	5
Orthopedic	8
Lacerations	8 (sutured)
Appendix	3
(Appendectomy Bryn Mawr Hospital)	

House Patients

Upper respiratory infections	17	
Gastro intestinal infections	11	
Miscellaneous	14	
Total	<u>42</u>	117

No communicable diseases reported

WILLIAM W. LANDER, M.D.

PUBLICATIONS AND ACTIVITIES OF THE FACULTY

1958-1959

ASENSIO, MANUEL J.

Articles: "La intención religiosa del *Lazarillo de Tormes* y Juan de Valdés," *Hispanic Review* XXVII (January, 1959), 78-102.

ASHMEAD, JOHN, JR.

Articles: "Mark Twain in Blackface—Minstrel Form in Huckleberry Finn," *Doshisha Literature*, 20, 21 (October, 1958), 9-22.

"These were my Japanese Students," *Atlantic Monthly*, 204 (September), 56-59.

Reviews: Harold R. Isaacs, *Scratches on our Minds: American Images of China and India*, in *Journal of Asian Studies*, 18 (November, 1958), 117.

Lectures: "Literature readings in secondary schools," School and College Conference on English, February, 1949 (published in 1959 reports of the conference); "A 'Grammar for the Humanities,'" Southeastern Council of Teachers of English, Penna., March 14, 1959.

Board of Directors, Main Line 'School Night' Association.

BENHAM, THOMAS A.

Lectures: November 18, 1959, "Satellites," Main Line Kiwanis Club, Ardmore, Pa.; "Satellites," Ardmore Rotary Club, Ardmore, Pa.; "Satellites," Friends Select School, Philadelphia, Pa.; "Satellites," Optimists Club, Ardmore, Pa.; "Sounds from Satellites," Institute of Radio Engineers, Professional Group Chapter on Audio, Philadelphia, Pa.; Appeared at a Congressional Hearing before the Committee on Sciences and Astronautics, May 11, 1959.

Chairman of the Board, Philadelphia Association for the Blind.

Principal Investigator, Research on Travel Aids for the Blind.

President, Bryn Mawr Home and School Group.

Senior Member, Institute of Radio Engineers.

Vice-Chairman, Professional Group on Audio, Philadelphia Branch.

Member, NASA Space Probe Monitoring System.

Member, Committee for Research on Problems Associated with Blindness, Inc.

BORTON, HUGH

Articles: "Asian Studies in the American Colleges," *Journal of Asian Studies*, 18 (November 1958), 59-65.

"Factors in Japan's Modernization," *The Thorne Lectures*, Hofstra College (December 1958), 1-8.

[THIRTY-SIX

"The Importance of Discipline in the Liberal Arts College," *The Independent School Bulletin*, Series of 58-59, No. 4 (May 1959), 3-6.

Lectures: "The Future of Haverford College," 125th Anniversary of Haverford College, October 25, 1958; Haverford Club of Washington, Washington, D.C., November 7, 1958; "How United States Post-War Policy for Japan Developed," Collection, Swarthmore College, November 13, 1958; "We Dedicate Ourselves to Teach and Learn," Dedication of Radnor Senior High School, November 16, 1958; "The Values of Excellence," Haverford Senior High School National Honor Society Induction Ceremonies, December 5, 1958; "The Formation of American Post-World-War II Policy for Japan: A Case Study," Phi Beta Kappa Association, Philadelphia, December 11, 1958; Pittsburgh Alumni, December 30, 1958; "Youth's Challenge to Our Generation," The Big Brother Association, Philadelphia, January 13, 1959; Haverford Society of New York, January 29, 1959; "Education's Challenge to Quakers," Pendle Hill, February 5, 1959; "To Become Men of Wisdom," Haverford School Commencement, June 10, 1959; "Modernization Process of Japan," Asia Institute, Michigan State University, July 28, 1959.

Vice President, Trustee, Japan Society, Inc.

Vice President, Japan International Christian University Foundation.

Trustee of Lingnan University.

Board of Directors: Association for Asian Studies, American Friends Service Committee, Pendle Hill, Penjerdel, World Affairs Council of Philadelphia.

Life Fellow: International Institute of Arts and Letters.

Member: Harvard Visiting Committee on Far Eastern Civilizations.

BUTMAN, ROBERT H.

Lectures: Series of ten lectures on "Great Literature" to the Washington Seminar, Washington, D.C.: "Shakespearian Acting Today," Hathaway Shakespeare Club, Philadelphia.

Production of Aeschylus' *The Libation Bearers*, Yale Drama Festival, New Haven, Conn.

CADBURY, HENRY J.

Books: *The Making of Luke-Acts* (London) S.P.C.K. Press, 1958.

The Character of a Quaker (Pendle Hill Pamphlet 103), Pendle Hill, Wallingford, Pa., 1959.

Articles: "Religion in America," in *News Bulletin* of the Institute of International Education, XXIV (September, 1958), 12-19.

"The Exegetical Conscience," in *Nexus*, the Alumni Magazine of Boston University School of Theology, XI (November, 1958), 3-6.

"The Dilemma of Ephesians," in *New Testament Studies V* (January, 1959), 91-102.

"Conditions in Jamaica in 1687," in *The Jamaican Historical Review*, III (March, 1959), 52-57.

Reviews: Sophie H. Drinker, *Hannah Penn and the Proprietorship of Pennsylvania*, in William and Mary Quarterly, 3rd Series XVI (1959), 442-444.

Editorial Work: "Briefer Notices" and "Research in Progress," departments, *Bulletin of Friends Historical Association*.

"Letters from the Past" occasional column in *Friends Journal*.

Lectures: The William Penn Lecture for 1959, Philadelphia Yearly Meeting of Friends; The Ingersol Lecture for 1959, Harvard University. Lectures or addresses at Kings College, London (2); New College, University of London; Valley Friends Meeting (3); Central Philadelphia Meeting (3); Salem Quarterly Meeting, Mickleton, New Jersey; Princeton Meeting, New Jersey; New England Yearly Meeting (4); Jordans Meeting, Buckinghamshire; Theological Society of London; Old Orchard Meeting, New York; Haddonfield Meeting, New Jersey; Westtown School; Kennett Square Meeting, Pennsylvania; Lancaster Meeting, Pennsylvania; Swarthmore Meeting, Pennsylvania; Willistown Meeting, Pennsylvania.

President (1958-59), Studiorum Novi Testamenti Societas.

Chairman, Board of Directors, Bryn Mawr College.

Chairman, American Friends Service Committee and its Board of Directors.

Director, Board of Friends Historical Association.

Member, Revised Standard Bible Committee.

Lecturer, Pendle Hill (two terms).

Lecturer, Union Theological Seminary (Summer Term).

Honorary Degree, Doctor of Humane Letters, Howard University.

CADBURY, WILLIAM E., JR.

Lectures: "Progress Report on New Survey of Premedical Education," Association of American Medical Colleges, Continuing Group on Student Evaluation, Philadelphia, Pennsylvania, October 11, 1958. Participant in Panel Discussion: "Conflicting Philosophies in the Preparation of Students for Medical Education," Hahnemann Medical College, Philadelphia, Pennsylvania, April 24, 1959.

Treasurer, American Conference of Academic Deans.

Member, Committee in Charge of Westtown School.

Member, Panel for Evaluation of applicants for Science Faculty Fellowships, National Science Foundation, Washington, D.C., November 13-16, 1958.

Member, ad hoc advisory Committee for Whitney-Fulbright Orientation Seminar, Washington, D.C., May 8, 1959.

Associate Director, Committee on Resurvey of Preprofessional Education (Summary Conference, Buck Hill Falls, Pa., November 9-12, 1958).

Faculty Leader, Danforth Campus Community Workshop, Colorado Springs, Colorado, June 20-July 11, 1959.

CARY, JOHN R.

Overseer, William Penn Charter School.

Member, School Committee, Haverford Friends Meeting.

Member, Board of Managers, Friends Council on Education.
Member, International Student Program Committee, American Friends Service Committee.
Chairman, Publications Committee, Pendle Hill.

COMFORT, HOWARD

- Articles: "A Collegiate Course in Beginning Latin," *School and Society* 87 (March 14, 1959), 105-6.
"Concerning Worship and Ministry," *Friends Journal*, 5 (January 24, February 7, 1959), 52-54, 84-86.
"An Arrentine-Type Signature from Lezoux," *Amer. Journ. Archaeol.*, 63 (1959), 179-180.
"Felix Oswald," *Amer. Journ. Archaeol.*, 63 (1959), 194.
"Chremes' Illness: *Phormio* 574," *Class. World*, 52 (1959), 248.
"Intercollegiate Cricket," in H. Sayen, *A Yank Looks at Cricket*, 113-115.
"Some Roman Pottery in the Museu Etnologico, Belém," *Conombriga* 1 (1959), 1-10.
Introduction to *Shadow and Light in Bereavement*, Philadelphia Yearly Meeting, 1959.
Reviews: Stanfield and Simpson, *Central Gaulish Pottery*, *Amer. Journ. Archaeol.*, 62 (1958), 452.
Chenet and Gaudron, *La céramique sigillée d'Argonne des IIe et IIIe siècles*, *Amer. Journ. Archaeol.* 63 (1959), 111.
Moutinho de Alarcão, *Sigillata hispânica em museus do norte de Portugal*, *Gnomon*, 1959, 457.
Lectures: "Worship and Ministry," Radnor Meeting; "Prayer in Quaker Ministry," Swarthmore Meeting.
Director, American Philological Association.
President, *Rei Cretariae Romanae Fautores*.
Clerk, Philadelphia Yearly Meeting on Worship and Ministry.

DE GRAAFF, FRANCES

- Lectures: Pennsylvania Chapter of American Association of Teachers of Slavic and Eastern European Languages. Meeting at Immaculata College, May 1959.
Lecture on "Pasternak's Doctor Zhivago."

DESJARDINS, PAUL J. R.

- Lectures: "Plato and the Poets," Haverford Philosophy Club; "Justice and the Divided Line," Fullerton Club; "Catholics on Segregation," Bryn Mawr Interfaith.

DRAKE, THOMAS E.

- Reviews: Otelia Cromwell, *Lucretia Mott*, in *Bulletin of Friends Historical Association*, 48, No. 1 (Spring, 1959), 69-70.

Lectures: "James and Lucretia Mott," Race Street Friends Meeting, Philadelphia.
Member, Board of Directors, Friends Historical Association.

DUNATHAN, HARMON

Lectures: "1,3-Diphenylcyclobutadiene," Princeton University Graduate Seminar in Organic Chemistry; "1,3-Diphenylcyclobutadiene," Bryn Mawr College Chemistry Department Seminar; "Dimers of 1,3-Diphenylcyclobutadiene," American Chemical Society Meeting, Chicago.

FINGER, IRVING

Articles: Discussion in "Cellular and Humoral Aspects of the Hypersensitive States," ed. H. S. Lawrence. Hoeber-Harper, N. Y., 1959, 578-579.

Lectures: "Immunogenetics of Cytoplasmic Particles in Paramecium," Bryn Mawr Biology Colloquium.

FLIGHT, JOHN W.

Reviews: Oscar Cullmann, *Immortality of the Soul or Resurrection of the Dead?* (Witness of the New Testament), in *Journal of Bible and Religion*, XXVI, No. 4 (October 1958), 274-275.

Editorial Work: Phi Beta Kappa Handbook (1959), Zeta Chapter, Haverford College.
Lectures: "Dead Sea Scrolls and the New Testament," Unitarian Church, Wilmington, Delaware.

Sermons: Unitarian Fellowship, West Chester, Pa.: Congregational Church, Georgetown, Conn.

FOSS, MARTIN

Books: "*Abstraction and Wirklichkeit*," Francke Verlag, Bern.

Articles: "The Problem of Ultimate Reality" in *Bulletin of the Sanskrit College*, Calcutta, July-December 1958.

Lectures: "The Task of Philosophy," August 21, University of Calcutta; Monism in Indian Thought, August 28, Sanskrit College, Calcutta; "Existentialism," November 18, Madras University.

Sermons: March and April, 40 preaching engagements throughout England and Scotland.

FREUND, GERALD

Reviews: H. J. Gordon, *The Reichswehr and the German Republic*, 1919-1926; H. Speier, *German Rearmament and Atomic War*; *The Views of German Military and Political Leaders*, The American Political Science Review, 52, No. 24 (December 1958), 1143-1146.

A. Thimme, *Gustav Stresemann: Eine Politische Biographie zur Geschichte der Weimarer Republik*, Journal of Modern History, 30, No. 3 (September 1958).

[FORTY

Lectures: "American Foreign Policy in Europe," Bryn Mawr College Political Club; "Disengagement," League of Women Voters, Haverford Township; "American Policy and the Future of Germany," World Affairs Council, Philadelphia; "Germany and Disengagement," Swarthmore College International Relations Club, Disarmament Club, American Veterans Committee chapter, Swarthmore, Pa.; "The Cold War," panel radio program, WRCV, Philadelphia; "Morality and Foreign Policy," Bryn Mawr Presbyterian Church; The Eisenhower-Khrushchev Visits," panel television program, WRCV-TV, Philadelphia; "The Berlin Crisis," Collection, Haverford College; "The Atlantic Community: A Reappraisal," Discussant Paper, American Political Science Association Convention, Washington, D.C.

FRIEDRICH, GERHARD G.

Articles: "Special Treatment for Superior Students," and "Theme Reading and Grading," *College Composition and Communication*, IX (October 1958), 137-139, 160-161.

"Teaching the Survey Course: Whole Texts or Anthologies?" Panel report in *Bulletin of the Pennsylvania Council of English Teachers*, November 1958, 34-37.

"Perspective in the Teaching of American Literature," *College English*, 20 (December 1958), 122-128.

"Benefits to English Departments of the Advanced Placement Program," *College Composition and Communication*, 10 (February 1959), 11-14.

"Poe's 'Raven,'" *The New York Times Book Review*, March 1, 1959, 28.

"A Teaching Approach to Poetry: Matthew Arnold's 'Dover Beach,'" *The Pennsylvania Council of Teachers of English Newsletter*, 2, 3 (May 1959), 2-3.

"The Equation," reprinted in Gordon & Sorkin, eds., *The Armchair Science Reader* (1959), 752.

Lectures: "Approaches to Modern Poetry," Germantown Adult School, January 20, 1959. Main speaker, Middle-Atlantic Workshop on College English Standards, Columbia University, May 8-9, 1959.

"Poetry Explication," "The Rationale of the Advanced Placement English Examination," and "A College English Curriculum for the Twentieth Century," West Coast English Conference, Portland State College-Reed College, Portland, Oregon, June 25-28, 1959.

Chairman, Literature and English Composition Committee, College Entrance Examination Board Advanced Placement Program.

Chairman, Panel on "Educational Approaches to American Literature," National Council of Teachers of English Convention, Pittsburgh, November 28, 1958.

Chairman, Panel on "Implications of the Advanced Placement Program," National Conference on College Composition, San Francisco, April 2, 1959.

Consultant, Hamilton College English Conference.

Consultant, Reed College English Conference.

Member, College Entrance Examination Board Advanced Placement Commission.

Member, Board of Managers, Pendle Hill, Wallingford, Pa.

Member, Executive Committee and Committee on Future Directions, College Conference on Composition and Communication.

Professor and Head of the English Department, Cedar Crest College, Allentown, Pa.

GREEN, ELIZABETH V.

Articles: "Mitotic and Intermitotic Periods (with Irma Oxley Call and Nancy Jean Evans), in *Rana pipiens* Tadpoles and Embryos," *Journal of Experimental Zoology*, Vol. 140, No. 3, April 1959, pp. 1-43 (in press).

GREEN, LOUIS C.

Articles: "Tables for the Continuum Wave Functions for Hydrogen" with S. Matsu-shima and E. K. Kolchin), *Astrophysical Journal Supplement Series*, Supplement Number 34, III (November 1958), 459-493.

"Effect on the Energy of Increased Flexibility in the Separable Factor of Hylleraas-Type Atomic Wave Functions from H- to O, VIII (with S. Matsu-shima, C. Stephens, E. K. Kolchin, M. M. Kohler, Y. Wang, B. B. Baldwin, and R. J. Wisner), *Physical Review*, 112 (November 15, 1958), 1187-1191.

"HeI Ground-State Wave Function of the Form $f(r_1) f(r_2) g(r_{12})$ " (with C. Stephens, E. K. Kolchin, C. C. Chen, P. P. Rush, and C. W. Ufford), *Journal of Chemical Physics*, 30 (April 1959), 1061-1065.

Lectures: "New Tools of Astronomy," Men's University Club of Delaware County, Upper Darby; "Cosmology Today," Astronomy Course at the Franklin Institute, Philadelphia; "Recent Work on the Crab Nebula," Rittenhouse Astronomical Society, Philadelphia; "Work on the Improvement of Atomic Wave Functions at Haverford," Max-Planck-Institut für Physik und Astrophysik, Munich, Germany; "Oscillator Strengths, their Astrophysical Importance and some Difficulties in their Determination," Hamburger Sternwarte, Hamberg-Bergedorf, Germany; "Recent Work on the Improvement of Atomic Wave Functions," Atomic Energy Research Establishment, United Kingdom Atomic Energy Authority, Harwell, England.

Visiting Professor (May, June, and July), Max-Planck-Institut für Physik und Astrophysik, Munich, Germany.

Member, Committee on Science and the Arts, Franklin Institute, Philadelphia.

Member, National Research Council Committee on Line Spectra of the Elements.

Member, Sub-Commission on Intensity Tables, International Astronomical Union.

HARPER, EDWARD B.

Articles: "Political Organization and Leadership in a Karnataka Village" (with Louise G. Harper), in Park and Tinker (editors) *Leadership and Political Institutions in India*, Princeton University Press, 1959, pp. 453-469.

"A Hindu Village Pantheon," *Southwestern Journal of Anthropology*, Vol. 13, No. 3, pp. 227-234 (1959).

Reviews: Bryce Ryan et al. "Sinhalese Village," *American Anthropologist*, Vol. 61, No. 1, pp. 142-B (1959).
 K. D. Swaminathan, "The Nāyakas of Ikkēri," *Journal of the American Oriental Society*, 1959.
 Laurits Bodker, "Indian Animal Tales: A Preliminary Survey," *Journal of American Folklore*, Vol. 72, No. 285, pp. 254-5 (1959).
 Lectures: "New Perspectives in the Anthropological Study of Indian Civilization," paper given in a symposium entitled "New Perspectives in History and the non-western World," Bryn Mawr College, Spring 1959.
 Spent summer 1959 in South India studying a Dravidian language under a grant from the American Philosophical Society.

HARRISON, DAVID K.

Articles: "Infinite Abelian Groups and Homological Methods," *Annals of Mathematics*, Vol. 69, No. 2, March 1959, p. 366-391.

HEATH, DOUGLAS H.

Articles: "Projective Tests as Measures of Defensive Activity," *Journal of Projective Techniques* (Sept. 1958), 284-292.
 "Phrase Association Test: A Research Measure of Anxiety Threshold and Defense Type," *Journal of General Psychology*, (In press) 1960.
 "Simulus Similarity and Task Familiarity as Determinants of Expectancy Generalization," *Journal of Experimental Psychology*, (In press) 1959.
 "Instructional Sets as Determinants of Expectancy Generalization," *Journal of General Psychology*, (In press).
 "Drive Level and Reinforcement as Determinants of Expectancy Generalization." (Submitted for publication.)
 Lectures: "Modern Mother: Alice in Psychological Wonderland," Radnor Cooperative Nursery School; "Research on Student Personality," Wilmington Alumni Association, Wilmington, Delaware.

HETZEL, THEODORE B.

Articles: "Visits to Twenty Indian Communities," *Indian Truth* 35, No. 3 (October 1958), 3-7.
 Lectures: "Current Problems in American Indian Affairs," Ambler Presbyterian Church, and Women's International League for Peace & Freedom, Bryn Mawr; "Quaker Work with Indians," Millville-Muncy Quarterly Meeting, and Solebury Meeting; "Technical Cooperation and American Indians," International Technical Cooperation Seminar, Montana State College; "Cooperation between Indians and their Neighbors," Kiwanis, New Town, North Dakota.
 Sermons: "The Authority of Science and of Religion," Ursinus College.
 Chairman, Indian Program Subcommittee, and member American Section Executive Committee of the American Friends Service Committee.

Board of Directors, Indian Rights Association.
Vice President, Society for Social Responsibility in Science.

HORN, ROBERT L.

Lectures: "Kierkegaard and Martensen," an episode in Danish Theology, Haverford-Bryn Mawr Student Christian Movement. "Does the universe contain any reality other than that explored by the physical sciences?"—Contribution to Haverford Panel on this question.

Sermons: Collingswood Presbyterian Church.

Member of Disciples of Christ Commission on Biblical Theology, preparing report for coming world assembly of the World Council of Churches.

HUNTER, HOLLAND

Articles: "USSR: Economics Resources and Activities," *Collier's Encyclopedia*, 2nd ed., New York: P. F. Collier & Son, 1959, Vol. 19, pp. 42-47.

"Union of Soviet Socialist Republics," *Collier's Encyclopedia Yearbook for 1958*, New York: P. F. Collier & Son, 1959, pp. 618-30.

Reviews: Roy D. Laird, *Collective Farming in Russia*, *Annals of the American Academy*, Vol. 324 (July 1959), 166.

Lectures: "Reflections on Soviet Sights," South Jersey Schoolmen's Club, Glassboro; Modernization a la Russe," Swarthmore Economics Discussion Group, Swarthmore; "What Is Communism?" Young Friends Midwinter Conference, Haddonfield; "On Planning To Catch Up," Seminar in Soviet Economics, Littauer School, Harvard University; "A Sarkhanese Central Planning Board," Economics Department Colloquium, Penn State University and Cornell University; "On Planning to Catch Up," Third Pennsylvania Conference of Economists, Pittsburgh; "Some Basic Factors in US-USSR Relations," World Affairs Council, Philadelphia; "People, Space, and Power in the USSR," University of Michigan, Ann Arbor; "How We Can Win the Cold War," Ann Arbor Rotary Club.

Panelist, American Humanities Seminar, University of Massachusetts.

KENNEDY, GEORGE A.

Articles: "Aristotle On The Period," *Harvard Studies in Classical Philology*, 63 (1958), 283-288.

"The Earliest Rhetorical Handbooks," *American Journal of Philology* 80 (1959), 169-178.

Editorial Work: Associate editor, "Bibliography of Rhetoric and Public Address for the Year 1958," *Speech Monographs* 26 (1959), 183-216.

Lectures: "Isocrates' *Encomium of Helen*," Ninetieth Annual Meeting of the American Philological Association, Cincinnati, Ohio, December 29, 1959; "Aeschines: Victim or Villain?" Classics Club, Princeton University, March 31, 1959.

Member, Managing Committee, American School of Classical Studies at Athens.

Visiting Assistant Professor of Classics, Harvard Summer School, 1959.

LEMONICK, AARON

Articles: "Energy Levels in B⁹" (with R. G. Cornwell, and E. Almquist), *Bull. Am. Soc.*, 4, 219, 1959.

Lecturer, The University of the Air, WFIL-TV.

Professor of Physics, National Science Foundation Summer Institute, University of Pennsylvania.

Visiting Scientist, Visiting Scientist Program, National Science Foundation.

LESTER, JOHN A., JR.

Pamphlets: A Guide to the Preparation of Research Papers (Second Edition), Haverford College, Haverford, Pa., 1958.

Articles: "Library," in *Confidential Report for Manhattanville College of the Sacred Heart*, Middle States, Association of Colleges, February 1959, pp. 18-20.

"Prose-Poetry Transmutation in the Poetry of John Davidson," *Modern Philology*, LVI (August 1958), 38-44.

"Spring, Cooperation, and the A C R L," *Bulletin of the Special Libraries Council of Philadelphia and Vicinity*, XXV (November 1958), 16-18, 23-24.

Lectures: "The Role of Special Collections in a Haverford Education," Haverford College Parents' Day, November 8, 1958.

Consultant, Central Bucks-New Hope-Solesbury (Pa.) County Institute.

Consultant, English Department, St. Andrew's School, Middletown, Del.

Examiner and Regional Representative, Woodrow Wilson National Fellowship Foundation.

Member, Board of Directors, Union Library Catalogue.

President, Philadelphia Chapter, Association of College and Research Libraries.

LOCKWOOD, DEAN P.

Editorial Work: Editor, Bulletin, Library Associates of Haverford College.

Lectures: "A Look at the Past," Homecoming Day, October 25, 125th Anniversary of Haverford College.

Member, Editorial Board for Mediaeval and Renaissance Latin Translation and Commentaries.

Member, Advisory Council, Renaissance Society of America.

LOEWY, ARIEL G.

Articles: "Solubility Studies of 'Soluble' and 'Insoluble' Fibrin," A. G. Loewy, K. Dunathan, J. Gallant, R. Kriel, H. Wolfinger, abstract *135th Meeting, American Chemical Society* (April 1959).

Participant in Symposium on "Chemistry of Blood Clotting" given at 135th Meeting of American Chemical Society.

Participant in panel discussion sponsored by Student Christian Movement on the possibility of "Truth in Areas other than Science."

Member of Editorial Board, Rinehart Publishing Company.

MACCAFFREY, WALLACE T.

Reviews: M. W. Beresford and J. K. St. Joseph, *Medieval England on Aerial Survey*, Renaissance News, Winter 1958, XI, 4.

MACINTOSH, ARCHIBALD

Speech: "Alumni Responsibilities in Admissions," Dist. 2 American Alumni Council, Atlantic City, New Jersey. Commencement Address, St. Andrews School, Middletown, Delaware, June 5, 1959.

Board of Overseers, The William Penn Charter School.

Trustee, The College Entrance Examination Board.

MACKAY, COLIN

Articles: "Proportional Counting of Gasses and Vapors" (with Richard Wolfgang), *Nucleonics*, 16, No. 10 (October 1958) 69.

OAKLEY, CLETUS

Books: *Fundamentals of Freshman Mathematics* (with C. B. Allendoerfer). New York, McGraw-Hill, 1959, vii + 475 pp.

Reviews: Edmund Pinney, *Ordinary Difference-Differential Equations*. Amer. Math. Monthly, 65, No. 8 (October 1958), 647.

Editorial Work: Associate Editor, Amer. Math. Monthly.

Lectures: "Modern Mathematics for Modern Teachers," Faculty Association, State University of New York Teachers Colleges, Syracuse; "Abstract Algebra and the New High School Curriculum," Luzerne County Teachers, Wilkes-Barre; "The Secondary School Curriculum Mathematics," National Council of Teachers of Mathematics, New York; "Flexagons," Teachers College, New York State University, Albany; "Logic for High School Seniors and College Freshmen," Tennessee Mathematic Teachers Association, Nashville.

National Science Foundation Lecturer to High School Teachers and Students, Middle and Western Tennessee, seven weeks.

Member College Entrance Examination Board.

Consultant to National Science Foundation on Summer Institutes.

Mathematical Consultant to School Mathematics Study Group.

PARKER, FRANCIS H.

Books: *Logic as a Human Instrument* (with Henry B. Weatch), New York: Harper & Brothers, 1959, 411 pp.

Lectures: "Mind as a Matter of Fact" (Commentary), The Metaphysical Society of America, Brooklyn College; "A Realistic Appraisal of Knowledge," the Philosophy Club, Villanova University; "The Intellect and the Problem of Religious Belief," Student Christian Movement, Bryn Mawr Presbyterian Church; "Are

There Universal Moral Principles?" Germantown Friends School Seniors, Pendle Hill; "What is Ethics?" wives and staff of the Institute of Humanistic Studies for Executives, the University of Pennsylvania; "The Philosophy of Ethics," a course in the Institute of Humanistic Studies for Executives, the University of Pennsylvania; "Problems and Theories in Ethics," a course given in the Main Line School Night, once at Radnor High School and once at Lower Merion High School.

President of the Fullerton Club.

Secretary-Treasurer of the Metaphysical Society of America.

Moderator of a Student Christian Movement symposium on "Are there Aspects of Reality other than those Science Investigates?" Haverford College.

PFUND, HARRY W.

Articles: "Heimatkunde—A Plea" (Editorial, *Amer.-Ger. Rev.*, XXV (October-November 1958), 3.

Reviews: H. A. Pochmann, *German Culture in America—Philosophical and Literary Influences, 1600-1900, in Pennsylvania History*, XXVI (April 1959), 191-193.

Editorial Work: Associate Editor, *American-German Review*.

Lectures: "Betrachtungen eines Germantowners," Sta. WTEL, Philadelphia, in series, 175th anniversary of founding of Germantown; "Our Past Achievements," address to members and friends of Carl Schurz Memorial Foundation, Chicago, Illinois.

Member, Board of Overseers, Erstes Deutsches Reichswaisenhaus, Lahr, Black Forest, Germany.

President, Carl Schurz Memorial Foundation.

Vice President and Chairman, Library Committee, German Society of Pennsylvania.

POST, L. ARNOLD

Editorial Work: Editor: Loeb Classical Library.

(Reported a year ago) Aelian I
Ling XIV
Plutarch, *Moralia VII*

New in 1959 Aelian II

Dramatic Reading: "The Dyscolus of Menander" at the dinner of the Phi Beta Kappa Society of Haverford College, June 3, 1959, also at Bryn Mawr College, July 21, 1959.

REESE, WILLIAM H.

Lectures: Guest Lectureship in music department, Douglas College—Fall Term 1958.

Guest Conductor: The Cantata Singers, New York, December 11, 1959. A concert of Sacred Music of the French Baroque period.

REID, IRA DE A.

Articles: "Witnessing for the Races of Man," *Through A Quaker Archway*, Horace M. Lippincott, Editor, New York and London, 1959, pp. 142-148.

"Immigration and Assimilation," Bulletin Research Group for European Migration Problems, Volume 6, Nos. 3/4, July-December 1958, pp. 100-106.

"Frank D. Watson," *American Sociological Review*, Vol. 24, No. 5, October 1959, p. 708.

Reviews: Dietrich C. Reitzes, *Negroes and Medicine*, Cambridge, 1958; in *American Journal of Sociology*, July, 1959.

Editorial Work: Reader for Sociology, Rutgers University Press.

Member, Philadelphia Commission on Higher Education.

Member, Governor's Commission on Higher Education, Pennsylvania.

Member, Pennsylvania Committee on White House Conference on Children and Youth, 1960.

Member, Program Committee, Hazen Foundation, New Haven, Conn.

Consultant, Office of the Redevelopment Coordinator, City of Philadelphia.

REITZEL, WILLIAM

Books: Introduction, *The World Environment*, and Ch. IX, *The Intelligence Function*, in Brookings Institution Study for Senate Foreign Relations Committee, Formulation and Administration of U.S. Foreign Policy.

Editorial Work: Editorial consultant for above study.

Lectures: "Decision-making: a Primary Executive Responsibility," Industrial College Armed Forces, Washington, D.C.

ROGOW, ARNOLD A.

Reviews: Bert Cochran, ed., *American Labor*, The Nation, June 1959.

Small Town Politics in Glossop, *American Political Science Review*, September 1959.

Editorial Work: Advisory Editor in Political Science, Thomas Y. Crowell Company.

Lectures: "Reflections of a Crackpot," Annual meeting of Board of Managers and Faculty, Haverford College, January 23, 1959.

Commentator on paper, Conference of British Studies, New York, May 1958.

SANTER, MELVIN

Articles: "The Role of O¹⁸ Phosphate in Thiosulfate Oxidation by *Thiobacillus thioparus*."

"Biochemical and Biophysical Research Communications" (with J. Boyer and U. Santer) "*Thiobacillus novellus* I. Growth on Organic and Inorganic Media." *Journal of Bacteriology* 78 (1959).

[FORTY-EIGHT

SARGENT, RALPH M.

Lectures: "Plot and Structure in Literature," Athenaeum Society, University of Delaware, 8 March 1959; "Floral Variations in the Southern Appalachians," Highlands Biological Station, 27 August 1959.
Vice President, Philadelphia Botanical Club.
Trustee, Highlands Biological Station.
Board of Visitors, Union College, Schenectady, N. Y.
Member, National Council, American Association of University Professors.
Member, National Executive Committee.

SATTERTHWAITE, ALFRED W.

Articles: "A re-examination of Spenser's Translation of the 'Sonets' from *A Theatre for Worldlings* . . .," *Philological Quarterly*, October 1959, pp. 146-154.

SELOVE, FAY AJZENBERG

Articles: "Gaps in Data on Light Nuclei," *Proceedings of the 1958 Accelerator Conference* (October 1958), A-6 to A-14.
"Report on the Accelerator Conference," *Physics Today* 12, 26-28 (April 1959).
"Energy Levels of Light Nuclei VI" (with T. Lauritsen), *Nuclear Physics* 11, 1-341 (1959).
"The Light Isobars" (with T. Lauritsen), Caltech-Haverford Joint Report (August 1959).
Editorial Work: Editor of "Nuclear Spectroscopy," a two-volume work to be published by Academic Press in late 1959 or early 1960.
Lectures: "Gaps in Data on Light Nuclei," Accelerator Conference, Cambridge, Massachusetts, October 14, 1958; "Level Structure in the Light Nuclei," Florida State University, April 3, 1959; "Neutrons from the Triton Bombardment of Li^6 and Li^7 ," Spring Meeting, American Physical Society, Washington, D.C., May 1, 1959; "Systematics of Energy Levels," Photonuclear Gordon Conference, Meriden, New Hampshire, August 25, 1959.
Chairman, Session on Nuclear Energy Levels, American Physical Society Meeting, New York, January 28, 1959.
Grantee, National Science Foundation.

SMITH, JOHN WALLACE

Books: *The Socio-Economic Bases of the Poujade Movement* (microfilm), Ann Arbor, Michigan, 1959 (unpublished).

SOMERS, ANNE R.

Articles: "Private Health Insurance, Part II: Problems, Pressures, and Prospects," *California Law Review*, October 1958, 508-557 (with H. M. Somers).
"The Interrelationship of Public and Private Health and Medical Care Pro-

grams," *Labor Law Journal*, July 1959, 468-474. Also reprinted in *Insurance Law Journal*, July 1959, 429-435 (with H. M. Somers).

Reviews: H. A. Clegg and T. E. Chester, *Wage Policy and the Health Service*, Social Service Review, September 1958, pp. 318-19.

Research Associate, The Brookings Institution, Washington, D.C. Currently engaged (with H. M. Somers) on a book on the organization and financing of medical care in the United States.

SOMERS, HERMAN M.

Articles: "Federal and State Responsibilities for Welfare Financing," *Social Welfare Forum 1958*, Columbia University Press, 1958, 63-75.

"Major Issues in Workmen's Compensation," *Proceedings of the Social Security Conference*, Labor and Industrial Relations Center, Michigan State University, 1959, 28-38.

"Private Health Insurance, Part II: Problems, Pressures, and Prospects," *California Law Review*, October 1958, 508-557 (with A. R. Somers).

"Confronting the Crisis in Workmen's Compensation," *Monthly Labor Review*, March 1959, 252-6.

"The Interrelationship of Public and Private Health and Medical Care Programs," *Labor Law Journal*, July 1959, 468-474. Also reprinted in *Insurance Law Journal*, July 1959, 429-435 (with A. R. Somers).

"The Road Ahead," *Proceedings, 1958 Albany Institute on Workmen's Compensation*, State of N. Y., Workmen's Comp. Board, 1959, 3-13.

Reviews: J. G. Turnbull, C. A. Williams, E. F. Cheit, *Economic and Social Security: Public and Private Measures Against Economic Insecurity*, Industrial and Labor Relations Review (July 1959), 656-658.

Editorial Work: Editorial Consultant: Rutgers University Press; Wesleyan University Press.

Lectures: "Doctors, Patients and Third Parties," National Conference on Social Welfare, San Francisco, May 1958; "Health and Medical Care Programs," Industrial Relations Research Assoc., Boston, May 1958; "Workmen's Compensation: The American Experience," Bureau of Old-Age and Survivors Insurance, Baltimore, March 1959; "Occupational Disability and Social Legislation," Howard University Medical School, Washington, D.C., April 1959; "The Paradox of Medical Progress," Woodrow Wilson School, Princeton University, March 1959; "Employment Security and the Workmen's Compensation Experience," Bureau of Employment Security, U.S. Dept. of Labor, Washington, D.C., December 1958; "Spending the Negotiated Health and Welfare Dollar," Industrial Relations Research Assoc., Philadelphia, March 1959; "Social Security Here and Abroad," Graduate Dept. of Social Work and Social Research, Bryn Mawr College (two lectures), April 1959; "Research Areas and Training Methods in National Security Policy," Panel, American Political Science Assn., St. Louis, September 1958; "Employee Radiation Hazards and Workmen's Compensation," Testimony before Subcommittee on Research and Development, Joint Committee on Atomic Energy, U. S. Congress, March 1959.

Research Associate, The Brookings Institution, Washington, D.C.
 Political Science Selection Committee, Conference Board of Associated Research Councils, Washington, D.C. (Fulbright Awards).
 Federal Advisory Committee on Employment Security, U. S. Dept. of Labor, Washington, D.C.
 Consultant, National Analysts, Inc.
 Consultant, Planning Committee on Income Maintenance, White House Conference on Aging, Washington, D.C.
 Board of Directors, Industrial Relations Research Association.
 Executive Board, Inter-University Case Program.
 Board of Directors, World Affairs Council of Philadelphia.

STEERE, DOUGLAS V.

Pamphlet: *The Personal Factor in the Reconciliation of Conflict*, Johannesburg, S. A., 1958, 22 pp.
 Articles: "Prayer," *Weltkirchenlexicon*, Stuttgart, Germany.
 "Mutual Irradiation," *Religion in Life*, Summer Issue, 1959.
 Reviews: Elizabeth G. Vining, *Friend of Life*, Pendle Hill Bulletin, Autumn, 1959.
 Lectures: "Contemporary Religious Literature" (10 Lectures), Pendle Hill; 4 Lectures at Annual Convocation, Methodist Ministers of Iowa, Simpson College, Indianola, Iowa; "Spiritual Renewal of Our Time," Merrill Lecture, Ann Arbor, Michigan; "Religion and Ethics," University of Pennsylvania; "Africa's Challenge to the West," Manchester College, North Manchester, Indiana; "Spiritual Renewal of the Church," George Washington University, Washington, D.C.; "Work and Contemplation," Seminar for Business Executives, St. John's Church, Waterbury, Conn.; "The Task of Philosophy at Haverford," Board of Managers-Faculty Dinner, Haverford College; "The Race Situation in Southern Africa," Kistler Honor Society, Rosemont College, Rosemont, Pa. Quaker Addresses: Lansdowne Meeting Forum; Radnor Meeting Forum; Virginia Beach, Va. (3 Lectures); Green Pastures Quarterly Meeting, Kalamazoo, Mich. (2 Lectures); George School, Reading Meeting Forum; Religious Education Conference, Philadelphia Yearly Meeting "On Teachable Teaching;" "The Quaker Heritage in Education," Banquet Address, 75th Anniversary of Lincoln School, Providence, R. I.; Ithaca Friends Meeting, Ithaca, N. Y.; Stamford, Conn., Meeting.
 Sermons: Vassar College Retreat; Kirkridge Council Retreat; American Friends Service Committee (Southeastern Branch) Retreat; Wainwright House Retreat; Seminar on Christianity and Islam, Hartford, Conn.; Cornell University; Bryn Mawr College Vesper; Randolph Macon College; Sweetbriar College; Mt. Holyoke College; First Presbyterian Church, Ann Arbor, Mich.; Community Church, Pawling, N. Y.; University of North Carolina Women's College, Greensboro, N. C.; Chicago Sunday Evening Club, Blair Academy.
 Member of: World Council of Churches Commission on Churches' Responsibility in Atomic Age; Church Peace Union Commission on "The Implications of the Ethics of Major Religions for International Relations;" National Council of Churches, Division of Foreign Missions; Africa Committee; AFSC Committees:

Foreign Service Executive, International Centers, Africa; Board of Trustees: Wainwright House, John Woolman Memorial.
Chairman, Board of Trustees, Pendle Hill, Wallingford, Pa.
Chairman, American Section, International Fellowship of Reconciliation.

SWAN, ALFRED J.

Articles: "Liturgical Canticles of the Eastern Church," Second Series Nos. 7-10. Boosey and Hawkes, New York (with the aid of the Haverford College Research Fund).
"Sonata K 556 for piano," Novello, London.
"The Sources of Russian Music," in *Russian Orthodox Journal*, March 1959.
"Towards a restoration of the Znamenny Chant," in *Russian Orthodox Journal*, July 1959.
Lectures: "Harmonisationen des alten russischen Gesanges," Musikwissenschaftliches Seminar, Universität München, June 29, 1959, "Auf der Suche der Quellen unserer Musik (in Russian), Stevens Library, Munich, July 2, 1959; "Recollections of Rachmaninoff" B.B.C., London, July 27, 1959; "The folk-songs and the chants," Pushkin Club, London, September 18, 1959.

TEAF, HOWARD M., JR.

Reviews: C. A. Munkman, *American Aid to Greece: A Report on the First Ten Years, The Annals*, Vol. 324 (July 1959), 175-6.
Lectures: "Organized Labor and the Right to Work," Alliance for Political Affairs, Bryn Mawr.
President, Pennsylvania Conference of Economists.
Member, Board of Directors and Executive Committee, American Friends Service Committee.
Member of Foreign Service Executive Committee and Subcommittee.
Labor arbitration. Member National Academy of Arbitrators.

WILLIAMS, RUSSELL R., JR.

Books: *Principles of Physical Chemistry* (with W. H. Hamill), Prentice-Hall, Englewood Cliffs, N. J., 1959, 607 pp.
Articles: "Ion-Molecule Reactions of 1-3 Butadiene, of Acetylene, and of Acetylene-Methane Mixtures" (with W. H. Hamill and R. Barker), *Journal of Physical Chemistry*, Vol. 63, p. 825-282 (1959).
"Chemical Effects of Low Energy Electrons," *Journal of Physical Chemistry*, Vol. 63, pp. 776-780 (1959).
Lectures: "Chemical Effects of Low Energy Electrons": Paper delivered at the Chemistry Colloquium, Bryn Mawr College, October 1959. Paper also delivered at Boston Meeting of the American Chemical Society, April 5-10, 1959; "Radiation Chemistry," Lecture given at N. A. F. Summer Teachers' Institute, Penn State University, July 7, 1959.

Chairman of a session, Gordon Research Conference on Radiation Chemistry, New Hampton, N. H., July 27-31, 1959.

Attended N. S. F. Conference on Research and Teaching in the Liberal Arts College, held at the College of Wooster, June 23-July 1, 1959.

WISNER, ROBERT J.

Articles: "Integral domains on torsion-free groups of rank two," *American Mathematical Society Notices*, vol. 5, no. 6 (November 1958), p. 689, with Ross A. Beaumont.

"The nucleus of a torsion-free abelian group," *American Mathematical Society Notices*, vol. 5, no. 6 (November 1958), p. 676, with Ross A. Beaumont.

"Effect on the energy of the increased flexibility in the separable factor of Hylleraas-type atomic wave functions from H- to O, VIII," *Physical Review*, vol. 112, no. 4, pp. 1187-1191, with Louis C. Green et al.

"A theorem on periods of reciprocals of primes," *American Mathematical Society Notices*, vol. 6, no. 4 (August 1959), p. 432, with Charles F. Osgood.

Reviews: Kenneth S. Miller, *Elements of Modern Abstract Algebra*. *The American Mathematical Monthly*, vol. 66, no. 1 (January 1959), pp. 72-73.

Editorial Work: Editor, *SIAM Review*, a publication of the Society for Industrial and Applied Mathematics.

Editorial consultant, *American Mathematical Monthly*, *Journal of the Society for Industrial and Applied Mathematics*, McGraw-Hill Book Co.

Editor, *Haverford Mathematics Series*, Ginn and Co.

Lectures: "Integral domains defined on torsion-free groups of rank two," *American Mathematical Society*, Duke University, November 29, 1958.

Councilman-at-Large, Society for Industrial and Applied Mathematics.

Visiting Professor, National Science Foundation Summer Institute, University of Arkansas, Fayetteville, Arkansas.

Special Lecturer in Mathematics, National Science Foundation Summer Institute, Franklin and Marshall College, Lancaster, Pennsylvania.

Science Faculty Fellow, National Science Foundation.

Member, Institute for Advanced Study, Princeton, New Jersey.

WYLIE, LAURENCE W.

Articles: "As Chanzseaux Sees the French Crisis," *New York Times Magazine* (September 14, 1958).

"Revolution in Western France," *French Review* (May, 1959), pp. 539-46.

Interviews: *Le Meridional de Marseille*, July 17, 1959.

Courrier de l'Ouest, July 21, 1959.

Europe Numero 7, July 24, 1959.

Sonorama, July 23, 1959.

Informations et Documents, No. 96, 1er, janvier 1959.

Editorial Work: Associate Editor, *French Review*

Associate Editor, *Symposium*.

Lectures: "Evolution in Anjou," National Convention, American Association of Teachers of French; "Chanzeaux and France, 1789, 1959," University Lecture, Indiana University; "A New French Revolution," Germantown Arts and Letters; "Understanding the French," Shipley School; "Child Rearing Practices in France," Seminar on Mediterranean Cultures, Wenner Gren Foundation, Burg Wartenstein, Austria.

Member, Scholarship Committee, American Friends Service Committee.

Member, School Committee, Haverford Friends Meeting.

HAVERFORD COLLEGE BULLETIN



THIS ISSUE CONTAINS THE

REPORT OF THE TREASURER AND COMPTROLLER

1958-1959

VOLUME LVIII

NUMBER THREE

January, 1960

Administration

HUGH BORTON	<i>President</i>
B.S., Haverford College; A.M., Columbia University; Ph.D., University of Leyden.	
ARCHIBALD MACINTOSH	<i>Vice President and Director of Admissions</i>
B.A., Haverford College; M.A., Columbia University; Ph.D., University of Pennsylvania; LL.D., Haverford College	
WALTER C. BAKER	<i>Vice President for Development</i>
B.A., Haverford College	
WILLIAM EDWARD CADBURY, JR.	<i>Dean</i>
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania	
ALDO CASELLI	<i>Comptroller and Business Manager</i>
D.S.E. and C., University of Naples	
MRS. EDYTHA M. CARR	<i>Registrar</i>
JOHN ASHBY LESTER, JR.	<i>Librarian</i>
B.S., Haverford College; A.M. and Ph.D., Harvard University	
THOMAS EDWARD DRAKE	<i>Curator of the Quaker Collection</i>
A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University	
LOUIS CRAIG GREEN	<i>Director of the Strawbridge Memorial Observatory</i>
A.B., A.M. and Ph.D., Princeton University	
WILLIAM WOLTER LANDER	<i>Physician</i>
B.S., Ursinus College; M.D., University of Pennsylvania	
PETER G. BENNETT	<i>Psychiatrist for the College</i>
M.D., University of Pennsylvania.	
MRS. MIRIAM R. NUGENT	<i>Director of Food and Housing</i>
B.S., New York University	
CHARLES PERRY	<i>Associate Director for Development</i>
B.A., Haverford College; M.S.S., Bryn Mawr College	
WILLIAM WEBSTER AMBLER	<i>Assistant Director of Admissions</i>
B.A., Haverford College	
BERTHA KRATZ	<i>Resident Nurse</i>
R.N., Stetson Hospital	
BENNETT SMEDLEY COOPER	<i>Alumni Secretary and Assistant to the President</i>
B.S., Haverford College	
GERTRUDE MANN WONSON	<i>Secretary to the Director of Admissions</i>
B.S., Simmons College	
MRS. KATHARINE M. CARTER	<i>Secretary to the President</i>
A.B., Wilson College	
MRS. FLORENCE N. ANDREWS	<i>Secretary to the Dean</i>

Philadelphia, 10th Month 20th, 1959

TO THE BOARD OF MANAGERS AND THE CORPORATION

The Treasurer submits herewith his ninth annual report of the financial condition of the College. This report for the year September 1st, 1958 to August 31st, 1959, has been audited by Lawrence E. Brown & Company, and their report is attached.

Operation Results:

Another year of increased costs has brought about a small operating loss for the year of \$9,351.18. It is hoped that in the future we will again be able to operate in the black, as we did for eleven consecutive years heretofore.

There is some reason actually for a kind of morbid rejoicing that the deficit is not much larger than it is, for in a "quasi recession" year income from invested funds \$482,945.21 was within \$400 of that of the year before. Annual Giving was up from \$58,137.66 to \$70,330.61, and tuition was also up from \$385,391.30 to \$446,905. On the other hand, educational costs, largely faculty salaries, increased from \$588,174.22 to \$650,264.87 and other expenses, including a larger than usual sum for plant improvement and renovation, also rose.

Miscellaneous Expenses:

The Treasurer's, Secretary and Board Expenses and services have remained practically a constant for the past several years at \$13,620.40, as has also the so-called working aid to students \$7,894.26; at \$23,258.38 the Old Style Faculty Pensions are less than the previous year. It is worthwhile noting in connection with these pension provisions for professors and their widows, not under the T. I. A. A. that the College has made in the past three years two increases so that the payments are now much more in line with present day costs of living.

Depreciation:

Depreciation and replacement costs are much in people's minds and there is some general misunderstanding of how this works in College accounting. Practically all Colleges, including Haverford, follow the well settled institutional accounting practice of not setting aside an amount annually from the operating budget and labeling it "depreciation." The theory back of this is that College buildings are supposed to last indefinitely, and that if and when such buildings are replaced, or buildings are built, new money by gift or bequest will be used to make such replacements. Another part of the theory is that depreciation is a tax savings device not necessary for an educational institution, which does not have to worry about income taxes.

All this does not mean, however, that we are unmindful of the functions and need for such a reserve. What it does mean in actual practice is that such repairs and replacements as are required are made every year. As a result our constituents are not nearly as aware of the fact as if it had been set aside and labeled in one year, and then spent in subsequent years. As has been stated, College buildings are supposed to be indestructible — witness Founders Hall — good or better than one hundred and twenty five years ago. This, however, is only true if such buildings are well maintained. We are attempting to do just that. The review now being made of the College plant by Vincent G. Kling, is disclosing this very clearly. And after a recent careful review of the College houses and apartments, our engineering consultant, Louis T. Klauder & Associates, stated "a majority of the buildings inspected appeared to be in the age bracket of thirty to fifty years old. A great deal has been done to modernize these buildings. . . . On the whole it can be said that the buildings have been well maintained." Incidentally, Haverford is blessed with a large number of faculty houses and apartments on the campus; these stand on our books as a part of our investments at \$610,613.91. We do in the case of these residences set up a minimum amortization figure of 1-1/2%, but at the same time we also make every effort to have the houses last forever — like the College buildings.

During the current years in furtherance of the above-described "current — depreciation" method, we have spent from budget such items as; new roofs for Chase Hall and the Infirmary \$5,950; new lights for Chase Hall \$555; alterations and furnishings in Leeds, Founders and Barclay \$3,025.94; exterior and interior painting \$13,707; and these are only special items aside from regular maintenance of plant.

To sum it all up and to repeat, though we do not set forth in our accounts "depreciation" as so many dollars, we do in effect take it into account in so far as maintenance is concerned. It must be admitted that for new building we cast our eyes at alumni, friends and foundations!

Accounting Method:

This year marks a change worthy of note in the accounting system for our Consolidated Investments. We join the vanguard of institutions such as Amherst, Brown, Bryn Mawr, Princeton and Williams in the adoption of the more equitable market value method of accounting as against book value method. The system is also known as the unit-value method. Its usefulness is chiefly in a much more equitable plan for the allocation of income annually between old and new funds, and is a fairer plan of valuation for funds added to endowment or withdrawn from it. The details are somewhat intricate and I will not go into them. Suffice it is to say, that one very interesting fact was disclosed by our accountants in the change-over. The unit value — market value — set at \$10 in 1939 when we consolidated the funds and to which date we went back, only rose to \$11.58 in the ten years to 1949, but in the next ten years rose to \$23.22, which means the unit value of our portfolio has more than doubled in the last ten years, an extremely creditable record.

Corporate Gifts:

It is heartening to note the continued increase in corporate gifts largely for faculty projects and research; it is also a tribute to the quality of our faculty. This year we received \$85,412.83 as against \$49,375 last year. It is encouraging to note another trend in the corporate giving, namely the allocation of a percentage for the overhead of the institution.

Investments:

During the past year a considerable change took place in the market; common stocks rose to an unprecedented high and at the same time bond yields also rose to a very high point. Mindful of the constant need for income, the College sold a small percentage of its common stocks yielding less than 2-1/2% and purchased bonds yielding over 5%. In addition to doubling the yield, this move had the added advantage of making sure of capital gains for the year in the amount of \$556,948.87.

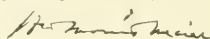
We ended the year with the Consolidated Investments and the Philips Investments showing a book value of \$11,296,478 and a market value of \$17,531,217. The William Maul Measey Trust is mentioned elsewhere in this report. As of August 31st in our Consolidated Investments account the percentage of common stocks at market value was 60.8% — almost exactly the same as in the two previous years, the percentage of bonds at market value was 19% and of preferred stock 15%, campus real estate 4.7% and mortgages .5%. On book values the percentages were 42.3% in common stocks bonds 30% and preferred stock 20%, campus real estate 7%, mortgages .7%.

Conclusion:

The income from the two funds to be especially reported, the John Farnum Memorial and the John Farnum Brown Funds continued to be expended in the manner provided by the trusts.

In conclusion your Treasurer would summarize educational financing in the words of the Red Queen to Alice in Wonderland "Now, here you see it takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast as that."

Respectfully submitted,



Wm. Morris Maier, Treasurer

Lawrence E. Brown & Company

ESTABLISHED 1882

Certified Public Accountants

(PENNSYLVANIA)

1917 FIDELITY-PHILADELPHIA TRUST BUILDING

PHILADELPHIA

W. EDWIN DILL
ROBERT W. JOHNSTON
R. CARL RHODES
ADDISON R. BROWN, JR.
ALBERT F. ZANGER

October 13, 1959

To the Board of Managers
The Corporation of Haverford College
Haverford, Pennsylvania

Gentlemen:

We have examined the balance sheet of The Corporation of Haverford College as at August 31, 1959, and the related statements of receipts and expenditures, operating statement and report on the funds for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

Land, buildings, improvements, furniture and equipment are written off as their cost is funded. Therefore the plant section of the balance sheet shows these assets at no value.

In our opinion, subject to the above comment relating to land, buildings, improvements, furniture and equipment, the accompanying balance sheet and the related statements of income and expenditures, operating statement and report on the funds present fairly the financial position of The Corporation of Haverford College at August 31, 1959 and the results of its operations for the year then ended, in conformity with generally accepted accounting principles for educational institutions applied on a basis consistent with that of the preceding year.

Very truly yours,

Lawrence E. Brown & Co.

Certified Public Accountants.

ASSETSCurrent

Cash	\$ 321,017.00	
Due from Endowment, cash overinvested	110,550.33	
Accounts receivable, loans, etc.	71,908.18	
Prepaid insurance, expenses, etc.	56,378.83	
Inventories	30,541.63	
Overexpended special purpose funds	4,437.60	
Deferred charges	<u>3,788.95</u>	\$ 598,622.52

Endowment

Investments: Bonds, stocks and mortgages (Market value \$17,056,190.00)	\$10,830,000.74	
Perpetual fire insurance deposits	8,761.10	
Notes receivable	16,770.08	
Investment in College real estate	<u>610,613.91</u>	11,466,145.83

Plant

Land, buildings, improvements, furniture and equipment	<u>0</u>	
		<u>\$12,064,768.35</u>

AUGUST 31, 1959

LIABILITIESCurrent

Federal withholding and social security taxes payable	\$	19,079.64
Advance receipts for following year		22,512.70

Reserves

For operational expenditures	\$	53,730.12	
Pensions, non-faculty		84,660.99	
Death benefits, non-faculty		8,200.00	
Medical Reimbursement Plan		15,125.26	
Faculty Research Fund		7,714.27	
Library replacements		2,659.98	
Miscellaneous		1,014.00	
Fire loss		1,500.00	
Income Reserve Account		<u>94,508.07</u>	269,112.69

Donations

Alumni Annual Giving			
For operations of following year	\$69,581.16		
For subsequent years	<u>969.18</u>	\$ 70,550.34	
For special purposes		<u>130,696.21</u>	201,246.55

Unexpended Balance of Income

From endowment funds for special purposes	86,670.94	\$	598,622.52
---	-----------	----	------------

Endowment

For general purposes	\$	6,075,723.96	
For Wistar Brown Graduate School		387,107.81	
For Morris Infirmary		14,712.94	
For Haverford Union		1,878.82	
For scholarships		507,067.35	
For Library		337,266.19	
For Old Style Pensions		261,422.49	
For special purposes		106,534.92	
Augustus Taber Murray Research Scholarship Fund		24,907.42	
John Farnum Memorial Fund		31,741.22	
William Pyle Philips Fund		2,285,990.55	
C. Wharton Stork Art Gift Fund		23,200.00	
Walter R. Faries Fund		57,950.00	
Undistributed gain - Consolidated Investments Account		<u>1,240,091.83</u>	
		\$11,355,595.50	
Due to Current Funds - Cash overinvested		<u>110,550.33</u>	<u>11,466,145.83</u>

\$12,064,768.35

THE CORPORATION OF HAVERFORD COLLEGE

OPERATING STATEMENT

For the Year ending August 31, 1959

Receipts at College - Applicable to the Budget

Tuition:			
Cash	\$304,397.14		
Scholarship Funds	75,822.46		
Wm. Maul Measey Trust - Student Aid	29,250.00		
Scholarships from donations	<u>37,435.40</u>	\$ 446,905.00	
Board		203,223.52	
Rooms		107,303.00	
Board and Room from non-students		46,306.98	
Miscellaneous receipts		<u>60,211.73</u>	\$ 863,950.23

Income from Funds - Applicable to the Budget

Consolidated Investments - General Funds and Current funds invested		420,227.44	
Wm. Pyle Philips Fund - General		53,490.69	
John Farnum Memorial Fund		1,500.26	
C. Wharton Stork Art Gift Fund		255.44	
From Trusts:			
Henry C. Brown	\$ 5,000.00		
Nathan Branson Hill	150.41		
W. Percy Simpson	<u>2,320.97</u>	<u>7,471.38</u>	482,945.21

Donations Applicable to the Budget

From General Purposes	39,348.42	
From Annual Giving	<u>70,330.61</u>	109,679.03

Interest Received

2,078.08

TOTAL RECEIPTS \$1,458,652.55

Expenses of Running the College

Administration	\$182,861.09	
Educational Departments	650,264.87	
Maintenance and Operations	284,984.75	
Dining Room and Kitchen	234,462.97	
Development	<u>56,155.41</u>	\$1,408,729.09

Miscellaneous Expenses

Treasurer's, Secretary's, Legal, Board expenses and services	\$ 13,620.40	
Old Style Pensions	23,258.38	
Interest paid	1,994.60	
Working Aid to students	7,894.26	
Pensions to Non-Faculty and Reserve	11,507.00	
Reserve for Non-Faculty Death Benefits	<u>1,000.00</u>	<u>59,274.64</u>
		<u>\$1,468,003.73</u>

OPERATING LOSS \$ 9,351.18

INCOME RESERVE ACCOUNT

AUGUST 31, 1959

Balance in Reserve August 31, 1958	\$103,859.25
Operating losses for year 1958-1959	\$ 9,351.18
Net Position of Income Reserves August 31, 1959	<u>\$ 94,508.07</u>

NON-FACULTY PENSIONS ACCOUNT

RECEIPTS

Balance September 1, 1959	\$76,118.35	
Composed of accumulated reserves and interest		
Added:		
Yearly payments for future and past services	7,688.00	
On account of payments to retired persons	3,819.00	
Interest	<u>1,902.96</u>	\$ 89,528.31

EXPENDITURES

Pensions paid to nine persons:

W. J. Anderson, Mabel Beard, Alfred J. Harris, Anna Hewitt, Walter Muraski, Mary Norris, J. Otto Rantz, Emanuel Strothers, Henry Wilson	<u>4,867.32</u>
Balance August 31, 1959	<u>\$ 84,660.99</u>

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL			INCOME				Special	Cr. Balance	Special	Income
Book Value	Increase	Decrease	Book Value							
9/1/58			9/1/58	Net Income	Expended	8/31/59		8/31/59		Summary
<u>FUNDS FOR GENERAL PURPOSES</u>										
\$ 101,795.14	\$ 7.50		\$ 101,802.64		\$ 6,976.95	\$ 6,976.95				
10,640.09			10,640.09	General Endowment Fund						
44,806.59			44,806.59	John M. Whittall Fund	722.88	722.88				
11,364.35			11,364.35	David Scull Fund	2,246.86	2,246.86				
5,144.24			5,144.24	Edward L. Scull Fund	875.02	875.02				
10,781.94			10,781.94	Wistar Morris Memorial Fund	453.84	453.84				
1,301,375.34			1,301,375.34	Israel Franklin Whittall Fund	740.07	740.07				
275,899.76			275,899.76	Jacob P. Jones Endowment Fund	97,559.57	97,559.57				
21,493.67			21,493.67	John Farnum Brown Fund	17,441.95	17,441.95				
42,394.72			42,394.72	Clementine Cope Endowment Fund	765.86	765.86				
9,160.24			9,160.24	Joseph E. Gillingham Fund	3,561.97	3,561.97				
45,035.96			45,035.96	Elizabeth H. Farnum Fund	787.35	787.35				
1,500.00			1,500.00	James R. Magee Fund	2,850.26	2,850.26				
39,515.48			39,515.48	Albert K. Smiley Fund	134.09	134.09				
174,560.31			174,560.31	Hinchman Astronomical Fund	3,001.54	3,001.54				
26,771.00			26,771.00	Walter D. & Edith M. L. Scull Fund	14,803.14	14,803.14				
24,381.59			24,381.59	Albin Garrett Memorial Fund	2,792.67	2,792.67				
125,569.51			125,569.51	Arnold Chase Scattergood Mem'l Fund	1,250.64	1,250.64				
218,728.43			218,728.43	Francis B. Gummere Memorial Fund	9,618.34	9,618.34				
126,076.83			126,076.83	Isaac Sharpless Memorial Fund	15,620.57	15,620.57				
102,067.43			102,067.43	General Education Board Fund	10,256.13	10,256.13				
14,125.79			14,125.79	William Penn Foundation	7,842.52	7,842.52				
25,128.94			25,128.94	Walter Carroll Brinton Memorial Fund	1,205.95	1,205.95				
10,000.00			10,000.00	Corporation Fund	1,547.19	1,547.19				
5,527.31			5,527.31	Elizabeth J. Shortridge Fund	67.04	67.04				
67,520.19			67,520.19	Howard Comfort Memorial Fund	351.56	351.56				
5,000.00			5,000.00	Ellen W. Longstreth Fund	5,910.25	5,910.25				
4,950.00			4,950.00	Albert L. Bailly Fund	429.77	429.77				
280,764.31			280,764.31	Elizabeth B. Wistar Warner Fund	397.97	397.97				
7,000.00			7,000.00	T. Allen Hilles Bequest	19,229.91	19,229.91				
2,500.00			2,500.00	Leonard L. Greif, Jr. & Roger L. Greif Fund	478.77	478.77				
1,369,519.75			1,369,519.75	Edward M. Wistar Fund	227.78	227.78				
12,000.00			12,000.00	Morris E. Leeds Fund	73,241.23	73,241.23				
103,993.26			103,993.26	J. Henry Scattergood Fund	714.28	714.28				
5,000.00			5,000.00	Parker S. Williams Fund	7,619.89	7,619.89				
2,500.00			2,500.00	Gilbert C. Fry Fund	315.45	315.45				
10,000.00			10,000.00	Daniel B. Boyer Fund	183.08	183.08				
187,971.35	\$ 1,607.30		189,578.65	Marriott C. Morris Fund	741.79	741.79				
				1949 Campaign Salary Fund	11,073.03	9,965.73				
				Forward	\$324,037.16	\$293,032.36				
					\$31,004.80					

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL				INCOME				Special Income Summary
Book Value 9/1/58	Increase	Decrease	Book Value 8/31/59	Balance 9/1/58	Net Income	Expended	Special	
\$4,832,563.52	\$ 1,614.80		\$4,834,178.32		\$224,037.16	\$293,032.36	\$31,004.80	
Forward								
FUNDS FOR GENERAL PURPOSES (continued)								
\$ 372,427.74	\$ 2,211.36		\$ 374,639.10		\$ 22,113.59	\$ 19,902.23	\$ 2,211.36 ²	
36,178.02			36,178.02		1,976.96	1,976.96		
25,068.15			25,068.15		1,461.23	1,461.23		
37,187.20			37,187.20		2,234.83	1,734.83	500.00 ¹	
5,000.00			5,000.00		301.70	301.70		
4,500.00			4,500.00		197.70	100.82	96.88 ²	
					7,670.59 ¹	113,400.00 ¹		
124,844.49	524.58		124,844.49	\$ 483.37	5,245.82 ¹	524.58 ²	\$ -524.80	
345,000.00			345,000.00		14,789.38	14,789.38		
214,000.00			214,000.00		9,186.85	9,186.85		
12,426.18			12,426.18		540.66	540.66		
10,000.00			10,000.00		420.32	420.32		
6,527.50	675.00		7,202.50		293.01	293.01		
-0-	35,000.00		35,000.00		948.08	948.08		
-0-	10,000.00		10,000.00		230.12	230.12		
-0-	500.00		500.00		13.04			
\$5,025,198.22	\$50,525.74		\$5,075,723.96	\$ 483.37	7,000.00	7,000.00		\$43,797.50 ¹
					\$351,918.55	\$47,737.62	\$ 511.76	3,843.24 ²
								96.88 ³
FUNDS FOR WISTAR BROWN GRADUATE SCHOOL								
\$ 384,652.34	\$ 2,455.47		\$ 387,107.81		\$ 24,554.71	\$ 21,207.30 ¹	\$ 891.94 ¹	
							\$ 2,455.47 ²	
FUNDS FOR MORRIS INFIRMARY								
\$ 9,653.44			\$ 9,653.44		\$ 790.78	790.78		
5,059.50			5,059.50		430.63	430.63		
\$ 14,712.94			\$ 14,712.94		\$ 1,221.41	\$ 1,221.41		
FUNDS FOR HAVERFORD UNION								
\$ 1,878.82			\$ 1,878.82		\$ 92.83	\$ 92.83		
FUNDS FOR SCHOLARSHIPS								
\$ 5,257.82			\$ 5,257.82		\$ 440.09		\$ 300.00 ¹	\$ 347.31
6,069.23			6,069.23		422.90		200.00 ¹	497.99
19,817.40			19,817.40		1,020.28		800.00 ¹	920.62
5,056.25			5,056.25		465.02		300.00 ¹	332.81
7,013.61			7,013.61		488.22		600.00 ¹	270.96
7,919.76			7,919.76		609.42		500.00 ¹	401.01
\$ 51,134.07			\$ 51,134.07		\$ 2,700.00	\$ 2,770.70		

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL				INCOME				Special Income Summary
Book Value 9/1/58	Increase	Decrease	Book Value 8/31/59	Balance 9/1/58	Net Income	Expended	Cr. Balance 8/31/59	
\$ 51,134.07			\$ 51,134.07	\$ 2,024.77	\$ 3,445.93	\$ 2,700.00	\$ 2,770.70	
FUND FOR SCHOLARSHIP (continued)								
\$ 22,845.86			\$ 22,845.86	\$ 1,919.15	\$ 1,316.83	\$ 600.00 ¹	\$ 2,635.98	
10,083.68			10,083.68		401.41	450.00 ¹	-48.59	
6,951.21			6,951.21	236.11	498.54	200.00 ¹	534.65	
5,155.85			5,155.85	197.55	454.70	400.00 ¹	252.25	
12,328.19	\$ 479.00		12,807.19	209.98	867.36	500.00 ¹	577.34	
5,045.60			5,045.60	226.66	358.43	300.00 ¹	285.09	
22,250.00			22,250.00	834.72	1,868.66	1,500.00 ¹	1,203.38	
5,017.31			5,017.31	172.59	308.58	300.00 ¹	181.17	
3,000.00			3,000.00	132.56	257.86	200.00 ¹	190.42	
10,925.00	254.00		11,179.00	435.82	762.29	700.00 ¹	498.11	
10,000.00			10,000.00	456.39	639.50	300.00 ¹	795.89	
75,534.58			75,534.58	2,518.45	6,492.17	4,350.00 ¹	4,660.62	
40,275.01			40,275.01	1,455.05	13,010.14	2,700.00 ¹	1,816.65	
17,050.00			17,050.00	565.83	1,358.95	1,100.00 ¹	824.78	
5,000.00			5,000.00	167.90	429.77	300.00 ¹	297.67	
30,000.00			30,000.00	1,275.93	2,154.03	2,000.00 ¹	1,429.96	
3,000.00			3,000.00	132.06	219.18	200.00 ¹	151.24	
10,000.00	10,000.00		20,000.00	333.06	791.75	600.00 ¹	524.81	
15,000.00			15,000.00	1,022.86	1,022.86	900.00 ¹	633.15	
2,700.00			2,700.00	88.86	181.37	2,850.00 ¹	270.23	
49,661.80	791.56		50,453.36	1,044.33	2,931.53	2,931.56 ²	834.30	
14,110.84	303.68		14,414.52	1,164.44	803.68	1,500.00 ¹	-0-	
25,000.00			25,000.00	207.25	1,332.30	2,000.00 ¹	496.74	
6,245.11			6,245.11	170.02	363.59	400.00 ¹	170.84	
5,000.00			5,000.00	203.83	301.70	300.00 ¹	171.72	
6,000.00			6,000.00	1,809.64	309.44	383.02	130.25	
10,000.00			10,000.00	287.47	422.04	1,000.00 ¹	1,231.68	
3,000.00	1,000.00		4,000.00	829.54	147.59	900.00 ¹	435.06	\$28,633.05 ¹
11,925.00			11,925.00		516.59		446.13	595.24 ²
\$494,239.11	\$12,828.24		\$507,067.35	\$19,610.25	\$34,020.23	\$29,228.26	\$24,402.22	
FUND FOR THE LIBRARY								
\$ 17,435.06			\$ 17,435.06	\$	\$ 1,029.74	\$ 1,029.74	44.75 ²	
68,178.80	\$ 44.75		68,223.55		4,399.11 ⁴		4,399.11 ⁴	
5,000.00			5,000.00	\$ 349.88	79.94	120.03 ⁴	\$ 309.79	
\$ 90,613.86	\$ 44.75		\$ 90,658.61	\$ 349.88	\$ 5,553.54	\$ 1,029.74	\$ 4,563.89	\$ 309.79

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL				INCOME				Special Income Summary
Book Value 9/1/58	Increase	Decrease	Book Value 8/31/59	Balance 9/1/59	Net Income	Expended	Special	
\$ 90,613.86	\$ 44.75		\$ 90,658.61	\$ 349.88	\$ 5,553.54	\$ 1,029.74	\$ 4,563.89	\$ 309.79
\$ 20,306.74			\$ 20,306.74	\$ 2,934.58	\$ 1,438.88	\$ 679.22 ⁴	\$ 3,694.24	
173,078.14			173,078.14	Anna Yarnall Fund	14,351.02	\$ 11,896.93	2,454.09 ⁴	-0-
635.47			635.47	F. B. Gunmore Library Fund	92.37	51.57	143.94	
1,002.34			1,002.34	Edmund Morris Ferguson, Jr. Mem'l Fund	151.36	85.95	56.92 ⁴	180.39
6,550.00			6,550.00	Class of 1888 Library Fund	583.00	695.92	1,258.92	1,258.92
1,253.52			1,253.52	Class of 1918 Library Fund	267.95	107.44	375.39	375.39
600.00			600.00	Quakeriana Fund	31.53	51.57	83.10	83.10
1,500.00			1,500.00	Mohonk Fund For Rufus Jones Coll. Myst.	689.67	110.88	5.95 ⁴	794.60
5,000.00			5,000.00	Rufus M. Jones Book Fund	2,434.65	370.47	118.13 ⁴	2,687.00
36,465.37	\$ 216.00		36,681.37	1949 Campaign Library Fund	592.25	806.00 ¹	216.00 ²	260.75 ²
\$ 337,005.44	\$ 260.75		\$ 337,266.19		\$ 8,240.16	\$ 25,650.36	\$ 12,326.67	\$ 10,476.02 ⁴
							\$ 10,736.77	\$ 10,227.08
FUNDS FOR OLD STYLE PENSIONS								
\$ 41,237.08			\$ 21,237.08	President Sharpless Fund	\$ 3,269.72	\$ 3,269.72		
36,758.66			36,758.66	William P. Henszey Fund	3,190.64	3,190.64		
68,113.78			68,113.78	Jacob P. Jones Benefit Fund	4,235.85	4,235.85		
3,272.24			3,272.24	Pliny Earle Chase Memorial Fund	288.18	268.18		
112,040.73			112,040.73	Haverford College Pension Fund	8,641.90	8,641.90		
\$ 261,422.49			\$ 261,422.49		\$ 19,606.29	\$ 19,606.29		
FUNDS FOR SPECIAL PURPOSES								
\$ 5,248.00			\$ 5,248.00	Thomas Shipley Fund	\$ 450.40	\$ 450.40	\$ 479.47 ⁵	\$ 80.06
1,126.75			1,126.75	Elliston P. Morris Fund	137.67	20.63	165.07 ⁴	-6.77
2,247.87			2,247.87	John B. Garrett Reading Prize Fund	1,986.14	192.54	2,178.68	2,178.68
9,227.07			9,227.07	Special Endowment Fund	1,266.75	543.23	200.00 ⁶	1,609.98
2,296.88			2,296.88	Scholarship Improvement Prize Fund	571.97	206.29	95.00 ⁷	683.26
1,727.00			1,727.00	Elizabeth P. Smith Fund	1,497.29	148.70	1,645.99	1,645.99
2,546.88			2,546.88	S. P. Lippincott History Prize Fund	129.07	232.08	100.00 ⁷	-117.06
5,120.30			5,120.30	Francis Stokes Fund	-189.93	440.09	274.90 ⁸	-24.74
4,057.37	\$ 244.82		4,302.19	George Peirce Prize Fund		294.82	244.82 ¹	
2,155.00			2,155.00	Lyman Beecher Hall Prize Fund	793.05	189.96	50.00 ⁷	883.01
1,397.75			1,397.75	Newton Prize Fund	101.30	252.71	100.00 ⁷	
2,400.00			2,400.00	Edward B. Conklin Athletic Fund		167.61	500.00 ⁴	-195.99
\$ 39,550.87	\$ 244.82		\$ 39,795.69	Forward	\$ 6,782.30	\$ 3,139.06	\$ 2,637.47	\$ 6,736.42

REPORT ON CONSOLIDATED

PRINCIPAL				INCOME				Special Income Summary
Book Value 9/1/58	Increase	Decrease	Book Value 8/31/59	Balance 9/1/58	Net Income	Expended	Special	Cr. Balance 8/31/59
\$ 39,550.87	\$ 244.82		\$ 39,795.69	\$ 6,782.30	\$ 3,139.06	\$ 167.61	\$ 2,637.47	\$ 6,736.42
				Forward				
				FUNDS FOR SPECIAL PURPOSES (continued)				
\$ 9,362.75		\$	\$ 9,362.75	Arboretum Fund	\$ 703.97		\$ 235.25 ⁸	\$ -89.23 ⁸
2,000.00			2,000.00	William Ellis Scull Prize Fund	171.91		50.07	1,182.34 ⁷
1,000.00			1,000.00	Paul D. I. Maier Fund	85.95	\$ 65.95	20.07	
					1,270.00			
3,839.54			3,839.54	Strawbridge Observatory Maintenance Fund ...	801.58		1,721.95 ⁹	678.84
					329.21		{ 10.02 ²	
7,107.60	\$ 10.02		7,117.62	Jacob & Eugenie Bucky Mem'l Foundation	478.77		{ 468.75 ¹⁰	
							{ 66.20 ²	
							{ 55.00 ⁷	
1,609.23	66.20		1,675.43	Mathematics Department Prize Fund	121.20			780.22
2,491.50			2,491.50	William T. Elkinton Fund	214.03		375.30 ⁵	1,361.99
7,000.00			7,000.00	Tilney Memorial Fund	548.39		10.07	37.00
142.90			142.90	Class of 1902 Latin Prize Fund	34.97		12.03	
6,315.00			6,315.00	Class of 1898 Gift	449.67		500.00 ⁵	408.67
1,006.50			1,006.50	Edmund J. Lee Memorial Award Fund	73.06		50.07	174.57
902.55			902.55	David R. Bowen Premedical Fund	280.34			325.90
15,043.62	1,000.00		15,043.62	Jonathan & Rachel Cope Evans Fund	846.76		1,354.77 ⁵	1,043.28 ⁴
1,457.44			1,457.44	Edward Hawkins Memorial Fund	71.38		160.00 ¹¹	168.35
500.00			500.00	William W. Baker Price Fund	87.62		- .95	200.00 ⁶
4,000.00			4,000.00	Christian Religion and Thought Fund	167.61		25.07	88.41
				The Kurzman Prize Fund	70.60		238.21	510.15 ⁸
	2,784.38		3,784.38	John G. Wallace Award Fund	108.02		125.00 ⁷	1,721.95 ⁹
								468.75 ¹⁰
\$ 102,329.50	\$ 4,205.42		\$ 106,534.92	Total	\$ 8,890.80	\$ 656.94	\$ 9,623.51	\$12,062.80
REPORT ON NON-CONSOLIDATED FUNDS								
\$ 33,226.06	\$1,484.84	\$ 31,741.22	John Farnum Memorial Fund		\$ 1,500.26	\$ 1,500.26		
			Nathan Branson Hill Trust		150.41	150.41		
			W. Percy Simpson Trust		2,320.97	2,320.97		
			Henry C. Brown Trust		5,000.00	5,000.00		
							\$ 343.76 ²	
24,563.66	\$ 343.76		24,907.42	Augustus Taber Murray Res. Sch. Fund	1,323.76		1980.00 ³	
	57,950.00		57,950.00	Walter R. Faries Scholarship Fund				
2,202,775.93	87,214.62	4,000.00	2,285,990.55	William Pyle Philips Fund				
				General	53.00 ¹			
					106,981.37 ¹	53,490.69		
							{ 16,223.84 ⁴	
							17,398.08 ¹²	
\$ 2,260,565.65	\$145,508.38	\$5,484.84	\$2,409,589.19	Special			12,668.04 ¹³	\$36,959.54
				Total	\$29,705.82	\$62,462.33	\$47,613.72	\$36,959.54

SUMMARY OF CONSOLIDATED AND NON-CONSOLIDATED FUNDS

NOTE: Key to Figures

1. Scholarships
2. Income to Principal
3. Annuity
4. Books & Library
5. Lectures
6. Religious Education Committee
7. Prizes
8. Plants & Services
9. Equipment & Expenses
10. Work Camp Fees & Expenses
11. Physical Education
12. Visitors
13. Miscellaneous

	Book Value		Book Value	
	9/1/58	8/31/59	Increased	Decreased
Funds for General Purposes	\$ 6,025,198.22	\$ 50,525.74		
Funds for T. Wistar Brown Graduate School ..	384,652.34	2,455.47		
Funds for Morris Infirmary	14,712.94			
Funds for Haverford Union	1,878.82			
Funds for Scholarships	494,239.11	12,828.24		
Funds for Library	337,005.44	260.75		
Funds for Old Style Pensions	261,422.49			
Funds for Special Purposes	102,329.50	4,205.42		
Current Funds - Invested				
Undistributed Gains	838,785.00	469,734.25		\$68,427.42*
Total Consolidated Funds	\$ 8,460,223.86	\$540,009.87		\$68,427.42
Total Non-Consolidated Funds	2,260,565.65	145,508.38		5,484.84
Total Funds	\$10,720,789.51	\$685,518.25		\$73,912.26
				\$11,332,395.50
				\$642,624.69

NET INCREASES IN CONSOLIDATED AND NON-CONSOLIDATED FUNDS

The Book Value increases \$611,605.99 as follows:

Donations for additions to Funds	\$120,749.88
Income transferred to principal	7,819.50
Net gains on securities sold & called:	
Consolidated Investments	469,734.25
Wm. Pyle Philips Investments	87,214.62
	<u>\$685,518.25</u>

* Less: From Capital Gains, Excess of

Market Value over Book Value for	
Funds withdrawn	\$ 68,427.42
John Farnum Memorial Fund (Loss)...	1,484.84
Wm. Pyle Philips Fund (Payment)	4,000.00
	<u>73,912.26</u>
	<u>\$611,605.99</u>

INCOME RETURN: The net income return after allowing custodian fees to our fiscal agent was 5.95% on book value and 3.88% on market value of Consolidated Investment at end of year. (Does not include College Real Estate.)

CLASSIFICATION OF INVESTMENTS

AUGUST 31, 1959

CONSOLIDATED ACCOUNT

NON-CONSOLIDATED ACCOUNT

<u>BONDS</u>	<u>BOOK VALUE</u>	<u>TOTAL</u>	<u>MARKET VALUE</u>	<u>TOTAL</u>	<u>BOOK VALUE</u>	<u>TOTAL</u>	<u>MARKET VALUE</u>	<u>TOTAL</u>
Government, U. S.	\$ 264,767.19		\$ 261,050		\$ 50,296.88		\$ 50,000	
Industrial	598,871.71		607,750		144,219.50		147,680	
Municipal	130,800.00		130,700		-0-		-0-	
Public Utility	828,221.95		810,710		191,792.00		186,540	
Railroad	695,145.19		609,953		223,515.80		195,845	
Inst. of the Govt.	150,525.00	\$2,668,331.04	150,000	\$ 2,570,163	-0-	\$ 609,824.18	-0-	\$ 580,065
<u>PREFERRED STOCK</u>								
Industrial	\$1,028,311.48		\$1,265,843		12.72		12	
Public Utility	574,404.35		529,250		-0-		-0-	
Railroad	242,150.87	1,844,866.70	263,300	2,058,393	15,467.75	15,480.47	19,000	19,012
<u>COMMON STOCK</u>								
Banks & Insurance	\$ 729,310.51		\$1,530,728		\$ 142,395.54		\$ 212,296	
Industrial	1,516,665.69		3,798,943		1,093,169.10		2,244,902	
Public Utility	1,364,367.97		2,388,117		454,989.08		982,493	
Railroad	162,800.88		241,000		31,725.45		33,375	
Miscellaneous	51,380.00	3,824,525.05	247,800	8,206,588	19,219.83	1,741,499.00	34,800	3,507,866
<u>MORTGAGES</u>								
		68,860.24		68,860				
<u>MISCELLANEOUS</u>								
College Real Estate	\$ 610,613.91			636,145				
Miscellaneous	25,531.18	636,145.09						
<u>CASH</u>	over invested	(110,921.81)		(110,921)		33,785.54		33,785
		\$8,931,806.31		\$13,429,228		\$2,400,589.19		\$4,140,728

NOTE: There is also held \$56,614.06 Banks & Insurance stock not included in the above figures, being holdings in C. Wharton Stork Art Gift Fund which is not included in the Funds. This Fund has an overdraft in Principal cash of \$33,414.06.

SUMMARY OF THE ACCOUNTS OF
THE CORPORATION OF HAVERFORD COLLEGE

WM. MORRIS MAIER, TREASURER

ALDO CASELLI, COMPTROLLER

For the Year ending August 31, 1959

RECEIPTS

Income from Endowment Funds Consolidated

Funds for General Purposes	\$398,661.04	
T. Wistar Brown Graduate Sch. Fd.	24,554.71	
Morris Infirmary Funds	1,221.42	
Haverford Union Funds	92.83	
Scholarship Funds	34,020.23	
Library Funds	25,650.36	
Old Style Pension Funds	19,606.29	
Special Purpose Funds	8,890.60	
Current Funds Invested	<u>12,597.45</u>	\$ 525,294.92

Income from Non-Consolidated Funds

John Farnum Memorial Fund	\$ 1,500.26		
Augustus Taber Murray Research Scholarship Fund	1,323.76		
Charles Wharton Stork Art Gift Fd.	255.44		
Wm. Pyle Philips Fund	107,034.37		
Nathan Branson Hill Trust	150.41		
W. Percy Simpson Trust	2,320.97		
Henry C. Brown Trust	<u>5,000.00</u>	<u>117,585.21</u>	\$ 642,880.13

Income from College Sources

Tuition and Dropped Courses		\$ 446,905.00
Board		203,223.52
Rooms		107,303.00
Board and Room from Non-Students:		
Rent	\$ 2,482.75	
Rooms: Guests, Alumni, Faculty and Employees	5,438.50	
Meals: Day Students	3,601.85	
Faculty, Special Events Guests and		
Employees	24,160.48	
Summer Conferences - Rooms and Meals	<u>10,623.40</u>	46,306.98

Miscellaneous Collections

Snack Bar	\$ 30.38		
Infirmary	432.24		
Fines	1,009.00		
Transcripts	989.23		
Sale of Wood	447.00		
Rent of Truck and Land	660.50		
Admission to Athletic Games	1,445.28		
Sundry Minor Collections	2,410.18		
Admission Fee	5,630.00		
Discounts Earned	538.36		
Overhead: Research Projects	6,742.32		
T. A. Benham's Project	1,993.39		
Overhead in Connection with Work Done for Outsiders	113.72		
Overhead granted by certain Corporative Scholarships	12,050.00		
Unit Fee	15,720.13		
Rental of Dining Room	7,000.00		
From Philips Account for Public Relations Cost	<u>3,000.00</u>	<u>60,211.73</u>	863,950.23

Interest Received

2,078.08

Forward \$1,508,908.44

Forward		\$1,508,908.44
<u>Donations for Additions to Funds</u> (as per schedule)		\$ 62,799.88
<u>Donations for Additions to Non-Consolidated Funds</u> Walter R. Faries Scholarship Fund		57,950.00
<u>Donations Other Than Funds</u> For General Purposes:		
From Equitable Life Insurance Co.	\$ 1,000.00	
From Columbia University.	784.00	
From Penna. Foundation for Independent Colleges.	7,876.17	
From Hugh Borton.	157.00	
From Richardson Dilworth	150.00	
From Thomas W. Elkinton	5,000.00	
From S. H. Horne	15.00	
From Household Finance Corp. Fdn.	50.00	
From J. S. Lake	60.00	
From William Maul Measey Trust.	6,543.09	
From C. C. Morris	100.00	
From Phila. Quartz Co.	5,000.00	
From Legh W. Reid	680.00	
From J. W. Settle, Jr.	10.00	
From Yarnall Waring Co.	500.00	
From Gulf Oil Corp.	987.28	
From Esso Corp.	5,000.00	
From S. E. Stokes	5,000.00	
From E. I. DuPont de Nemours Co.	1,500.00	
From Christine R. Lindback Trust	1,000.00	
From J. G. Hartman	959.76	
From Caroline Newton	250.00	
From National Merit Corp.	5,550.00	
From General Motors Corp.	4,000.00	
From Union Carbide Corp.	1,550.00	
From Scott Foundation	1,000.00	
From Esso Foundation	5,000.00	
From Alumni Annual Giving	85,599.98	\$ 145,272.28
For Scholarships:		
From Board of City Trusts	\$ 400.00	
From Friends Freedman Assn.	3,000.00	
From National Merit Corp.	5,100.00	
From General Motors Corp.	5,250.00	
From Haverford Society of Maryland	66.00	
From Haverford Society of New England	520.00	
From Students Assn. of Haverford College	630.00	
From Mary Frances Nunnes	1,000.00	
From Amherst College	500.00	
From Haverford Township High School Varsity Club. .	250.00	
From The Cuno Foundation	500.00	
From Yale University.	650.00	
From The Diocese of Philadelphia	1,750.00	
From American Foreign Service Assn. Com. on Educ. .	450.00	
From Com. on Ecumenical Mission & Relations of the United Presbyterian Church in the U. S. A.	500.00	
From Smith College	800.00	
From National Assn. of Secondary School Principals .	1,000.00	
From Towers, Perrin, Foster and Crosby, Inc.	1,000.00	
From Gertrude Gottschall	100.00	
From Natl. Scholarship Serv. & Fd. for Negro Students.	400.00	
From Christian R. & Mary Lindback Foundation	1,000.00	
From Special Gifts by Members of the Class of 1924. .	1,497.75	
From Union Carbide Corp.	3,730.00	
From Guggenheim Foundation.	350.00	
From Scott Foundation	2,000.00	
From Board of Education.	2,600.00	35,043.75

Forward	\$1,629,658.32
---------------	----------------

Forward	\$1,629,658.32
---------------	----------------

Donations Other Than Funds (continued)

For Books and Library:

From Library Associates	\$ 803.50	
From Shoemaker Foundation	3,000.00	
From Mrs. A. Haines	500.00	
From Matzke Royalties	32.70	
From John A. Kittridge Fund	250.00	
From J. A. Kelly Book Fund	80.00	
From Class of 1958	212.31	
From Sundry Donors	157.00	\$ 5,035.51

For Music:

From Friends of Music	\$ 671.50	
From College Budget	250.22	921.72

For Radio Club:

From Interest		91.64
---------------------	--	-------

For Trees and Grounds:

From Edward Woolman		1,460.00
---------------------------	--	----------

For Prizes - Haverford News Award:

From J. D. Kenderdine		100.00
-----------------------------	--	--------

For Student Loans - Stiles Fund:

From Repayment of Loans		302.00
-------------------------------	--	--------

For Wm. E. Lunt Memorial		10.00
--------------------------------	--	-------

For Equipment of Plant:

From Esso Foundation	\$ 3,000.00	
From Helen D. Groome Beatty Estate	2,450.00	
From Shell Co.	1,000.00	
From E. I. duPont de Nemours	2,500.00	8,950.00

For Faculty Projects:

From National Institute of Health - Santer	\$ 3,685.00	
From Danforth Foundation - Sumer Study	10,000.00	
From National Science Foundation - Research	8,140.00	
From National Institute of Health - Loewy	2,430.93	
From National Science Foundation - Santer	900.00	
From National Science Foundation - Selove	10,200.00	
From National Institute of Health - Heath	2,300.00	
From National Science Foundation - Loewy	1,800.00	
From National Science Foundation - Finger	2,700.00	
From National Institute of Health - Mrs. Green	9,200.00	
From Atomic Energy Commission - Williams	4,711.00	
From National Institute of Health - Finger	7,383.00	
From National Institute of Health - Loewy	7,313.00	
From Research Corporation - Santer	8,850.00	
From Faculty Research Funds - Santer	750.00	
From Research Corporation - Dunathan	2,500.00	
From S. Sarnoff - MacCaffrey	50.00	
From Smith, Kline & French - Biology	2,500.00	85,412.93

For Pilot Study:

From Ford Foundation		68,000.00
----------------------------	--	-----------

For J. B. Calkin Memorial Fund:

From Sundry Donors		365.00
--------------------------	--	--------

Forward		\$1,629,658.32
---------------	--	----------------

Forward	\$1,629,658.32
---------------	----------------

Donations Other Than Funds (continued)

For International Student Conferences in Japan:

From Douglas Steere	\$	100.00	
From Lydia Stokes		100.00	
From Hugh Borton		100.00	
From Danforth Foundation		<u>310.07</u>	\$ 610.07

For Class Anniversary Gifts:

From Class of 1909	\$	335.00	
From Class of 1933		1,355.00	
From Class of 1934		5,210.95	
From Class of 1935		335.00	
From Class of 1936		<u>905.00</u>	8,140.95

For Alumni Association:

From Annual Giving	5,477.00	365,192.85
--------------------------	----------	------------

For Human Relations:

Dividend Received	162.00
-------------------------	--------

Addition to Funds - Income Transferred to Principal

1949 Campaign Salary Fund	\$	1,107.30	
Rufus M. Jones Fund for Advancement of Teaching		2,211.36	
J. Horace Cook Fund		524.58	
Moses Brown Fund		2,455.47	
1949 Campaign Scholarship Fund		291.56	
Max Leuchter Scholarship Fund		303.68	
Mary Farnum Brown Fund		44.75	
1949 Campaign Library Fund		216.00	
George Peirce Prize Fund		244.82	
Jacob & Eugenie Bucky Memorial Foundation		10.02	
Mathematics Department Prize Fund		66.20	
Augustus Taber Murray Research Scholarship Fund		<u>343.76</u>	7,819.50

Reserve for Non-Faculty Pensions (see account)

Pensions	\$	11,507.00	
Interest		<u>1,902.96</u>	13,409.96

<u>Death Benefit for Non-Faculty</u>	1,000.00
--	----------

Faculty Research Fund

From J. E. Rhoads	\$	720.00	
From S. E. Stokes		5,000.00	
From Shell Company		<u>500.00</u>	6,220.00

Medical Reimbursement Plan

From Budget	5,000.00
-------------------	----------

New Construction

From The Corporation of Haverford College	\$	40,429.97	
From Edward Hawkins Fund		160.00	
From Contributions to repair ventilators on Field House:			
Burt Manufacturing Co.		698.95	
Carroll, Grisdale & Can Alen		<u>1,231.52</u>	42,520.44

Forward	\$2,070,983.07
---------------	----------------

Forward	\$2,070,983.07
---------------	----------------

Miscellaneous Items to Balance Accounts

Library Collections	\$ 1,038.45	
Skating Pond Receipts	2,229.15	
Taxes Withheld	163,403.46	
Sales Tax Collections	1,882.48	
In and Out	2,482.39	
Collections from Faculty, Students and Others for Work Done	2,971.32	
Student Store - Gross Sales	20,252.26	
Loans Repaid	19,554.80	
Student Affairs	113.18	
Bookstore Collections	69,494.68	
Accounts Receivable - Students	913,405.90	
Accounts Receivable - Others	162,884.14	
Accounts Receivable - U. S. Government	17,036.68	
William Maul Measey Trust - Receipts	32,715.44	
Treasurer's In and Out	969.18	
Over and Short	21.03	\$1,410,454.54

Items Relating to Other Fiscal Years

Advance Receipts for Following Year	\$ 16,747.51	
Rooms Paid in Advance	5,765.19	
Expenses for Following Years	67,494.10	
Prepaid Insurance	13,680.68	
Accounts Payable	53,730.12	
Inventories	11,830.81	169,248.41

Investments Realized

Consolidated Investments

<u>Bonds</u> - Government	\$249,115.75	
Industrial	105,789.13	
Public Utility	31,157.27	
Railroad	11,020.00	
Inst. of the Govt.	168,468.75	
<u>Preferred Stock</u> - Industrial	68,493.45	
Public Utility	38,481.30	
<u>Common Stock</u> - Banks & Insurance	224,677.52	
Industrial	577,784.80	
Public Utility	95,391.41	
<u>Mortgages</u> - payments made	12,029.76	
<u>College Real Estate</u>	10,464.08	
<u>Miscellaneous</u>	511.77	1,593,384.99

Wm. Pyle Philips Investments

<u>Bonds</u> - Public Utility	\$ 2,012.20	
Railroad	3,959.96	
<u>Common Stock</u> - Industrial	306,086.74	
Public Utility	23,448.97	335,507.87

<u>John Farnum Memorial Fund</u>	4,556.16	1,933,449.02
--	----------	--------------

Balances September 1, 1958

Treasurer's Account	2,550.39	
President's Account	29,058.77	41,609.16

TOTAL RECEIPTS	\$5,625,744.20
----------------------	----------------

EXPENDITURES

1958-1959

Expenses of running the College

Administration

Salaries	\$127,493.36	
Supplies & Postage	8,696.96	
Services	12,772.04	
Telephone & Telegraph	2,344.60	
Replacement & Repair	2,509.68	
Additional Equipment	151.79	
Taxes	2,121.63	
Insurance	358.91	
Traveling	7,247.91	
Public Relations	10,164.95	
Printing	10,819.92	
Entertainment	5,522.19	
Not Elsewhere Classified	Cr. 7,342.85	\$ 182,861.09

Educational Departments

Salaries	\$581,326.73	
Supplies & Postage	28,010.54	
Services	19,821.23	
Telephone & Telegraph	3,507.69	
Replacement & Repair	1,166.30	
Additional Equipment	49.95	
Taxes	8,782.24	
Insurance	1,788.88	
Travel	3,386.55	
Not Elsewhere Classified	2,424.76	650,264.87

Maintenance & Operation

Salaries	\$133,315.86	
Supplies	13,036.14	
Contracts	9,629.49	
Water, Heat, Light & Power	23,813.50	
Telephone	1,016.53	
Replacement & Repair	115,522.65	
Additional Equipment	3,214.58	
Taxes	11,257.19	
Insurance	9,401.18	
Not Elsewhere Classified	Cr. 35,222.37	284,984.75

Kitchen

Salaries	\$ 66,936.44	
Supplies	123,770.23	
Services	17,845.66	
Water, Heat, Light & Power	7,577.14	
Telephone & Telegraph	499.24	
Replacement & Repair	16,149.04	
Taxes	1,232.67	
Insurance	192.37	
Traveling	260.18	234,462.97

Development

Salaries	\$ 33,244.89		
Supplies & Postage	8,299.70		
Services	2,047.10		
Telephone & Telegraph	496.40		
Replacement & Repair	214.29		
Additional Equipment	3.65		
Taxes	514.66		
Insurance	90.22		
Traveling	933.37		
Not Elsewhere Classified	10,311.13	56,155.41	\$1,408,729.09

Forward \$1,408,729.09

Forward	\$1,408,729.09
---------------	----------------

Miscellaneous Expenses

Treasurer's, Secretary's Board		
Legal expenses and services	\$ 13,620.40	
Old Style Pensions	23,258.38	
Interest	1,994.60	
Work Aid to students	7,894.26	
Pensions and reserve to Non-Faculty	11,507.00	
Reserve for Death Benefit for Non-Faculty	1,000.00	\$ 59,274.64

Expenditures from Income of Funds for Scholarships

From General Funds	\$ 43,797.50	
From Scholarship Funds	28,033.02	
For Graduate Fellowships	891.94	
For Clementine Cope Fellowship	600.00	
For Annuity	96.88	73,419.34

Expenditures from Income of Augustus Taber Murray Fund

Annuity	980.00
---------------	--------

Expenditures from Income of Funds for Library

Books	10,476.02
-------------	-----------

Expenditures from Income of Funds for Special Purposes

Lectures	\$ 1,354.77	
Prizes	743.57	
Books	1,043.28	
Trees and Plants	510.15	
Strawbridge Observatory	1,721.95	
Work Camp	468.75	
Religious Education	200.00	
Physical Education	160.00	
Scholarship	3,100.00	9,302.47

Expenditures from Principal of Funds

Excess of market value over book value for Funds withdrawn	68,427.42
--	-----------

Expenditures from Principal of Wm. Pyle Philips Fund

Payment made in accordance with Agreement with Executors	4,000.00
--	----------

Expenditures from Wm. Pyle Philips Fund - Special

Visitors	\$ 17,398.08	
Books & Library	16,223.84	
Miscellaneous	12,668.04	46,289.96

Expenditures from Donations other than Funds

For Scholarships	\$ 37,685.40
For Music	921.72
For Books & Library	3,953.20
For Trees and Grounds	1,460.00
For Loans	200.00
For Prizes	50.00
For Russian Study	784.00
For Chemistry	1,500.00
For Lectures	500.00
For "Q" Meter	300.00
For British Museum Catalog	289.88
For Physics Assistant	150.00
For General Purpose	17,050.00
For Refund	805.03

Forward	\$1,680,898.94
---------------	----------------

Forward \$1,680,898.94

Expenditures from Donations other than Funds (continued)

For Faculty Projects and Equipment:		
Physics	\$ 1,822.84	
Mathematics	773.10	
Biology	800.00	
Chemistry	1,350.00	
Summer Study	2,500.00	
Dr. Green.....	3,936.67	
Independent Research	751.47	
Dr. Loewy.....	9,291.75	
Dr. Santer	9,760.93	
Dr. Selove	12,339.43	
Dr. Heath	2,092.47	
Dr. Finger	6,892.14	
Mrs. Green	11,308.82	
Dr. Williams	4,468.10	
Dr. Dunathan	1,901.70	
For Psychiatry.....	3,091.74	\$ 138,730.39
For Equipment of Plant:		
For Chemistry, Biology, Physics		9,121.54
For International Conference in Japan	\$ 610.07	
For Class Anniversary Expenses.....	22.98	
For Alumni Association Salaries	5,477.00	
For Support of Alumni Association	16,018.82	22,128.87

Faculty Research Fund

Paid for various projects 8,920.54

Medical Reimbursement Plan

Benefits Paid 1,524.75

Non-Faculty Penions

Paid from Reserves 4,867.32

New Construction

For Field House 24,099.34 \$ 209,392.75

Miscellaneous Items to Balance Accounts

Library Replacements	\$ 1,396.20	
Skating Pond Operations	945.87	
Taxes Withheld and Paid	160,621.37	
Sales Tax Paid	1,882.48	
In and Out.....	856.98	
Work in progress	2,775.32	
Student Store Expenses.....	19,259.87	
New Loans.....	6,850.00	
Student Affairs	1,114.18	
Bookstore Purchases & Operations	74,486.77	
Accounts Receivable from Students - Charges	913,926.92	
Accounts Receivable from others - Charges	180,393.99	
Accounts Receivable from U. S. Govt. - Charges	19,934.96	
William Maul Measey Trust - Student Aid Applied	29,250.00	
Treasurer's In and Out - Transferred to Proper Accounts	45,136.17	1,458,831.08

Items Relating to Other Fiscal Years

Advance Receipts - Applied.....	\$ 11,004.43	
Rooms Paid in Advance - Applied	4,401.75	
Expenses for Following Years - Applied	51,123.62	
Prepaid Insurance	7,856.66	
Accounts Payable	32,515.98	
Inventories	12,597.54	119,499.98

Forward \$3,468,622.75

Forward		\$3,468,622.75	
<u>Income Transferred to Principal</u>			
(see receipts for items)		\$	7,819.50
<u>Investments Made or Donated</u>			
<u>Consolidated Investments</u>			
Bonds - Government	\$497,943.88		
Municipal	130,800.00		
Industrial	120,959.20		
Public Utility	74,370.00		
Inst. of the Govt.	150,525.00		
Preferred Stock - Industrial	48,024.25		
Railroad	17,835.16		
Common Stock - Banks & Insurance	82,907.48		
Industrial	148,673.78		
Public Utility	130,338.79		
Mortgages	21,500.00		
College Real Estate	<u>9,018.42</u>	\$1,432,895.96	
<u>Non Consolidated Investments</u>			
<u>Wm. Pyle Philips Investments</u>			
Bonds - Government	\$ 50,296.88		
Industrial	51,852.50		
Public Utility	101,792.50		
Common Stock - Industrial	124,319.04		
Public Utility	<u>4,828.50</u>	333,089.42	
John Farnum Memorial Fund		4,378.54	
Walter R. Farries Scholarship Fund		<u>57,950.00</u>	1,828,313.92
<u>Balances August 31, 1959</u>			
Treasurer's Account	\$ 287,756.42		
President's Account	<u>33,231.61</u>	<u>320,988.03</u>	
TOTAL EXPENDITURES		<u>\$5,625,744.20</u>	

HAVERFORD COLLEGE

August 31, 1959

REPORT NO. 33 OF "LOAN FUND" ESTABLISHED IN 1926

Current Year 1958-1959

Cash balance on hand August 31, 1958	\$ 3,613.94
10 Loans repaid during the year	4,472.44
6 Partial payments on loans during year	570.39
Interest received during year	527.67
	<u>\$ 9,184.44</u>

Operating Expenses

10 Loans made during year	\$ 4,442.00
Cash on hand August 31, 1959	4,742.44
Loans outstanding August 31, 1959	21,501.62
Interest outstanding August 31, 1959	1,196.77
	<u>\$ 27,440.83</u>

Totals to August 31, 1959

Gifts and Donations	\$ 28,131.14
459 Loans repaid	75,397.59
612 Payments on loans	30,122.08
Interest Paid up	18,453.00
Other Sundry Collections	50.02
Advance received from Corporation of Haverford College	5,000.00
	<u>157,153.83</u>

Repayments of Gifts & Donations	\$ 21,707.75
Loss on funds and Merion Title & Trust Co.	582.01
Expenses	254.54
Loans Granted	<u>129,867.09</u>
	<u>152,411.39</u>

Cash balance on hand August 31, 1959	4,742.44
Outstanding interest to August 31, 1959	1,196.77
Outstanding loans to August 31, 1959	21,501.62
	<u>\$ 27,440.83</u>

DONATIONS FOR ADDITIONS TO FUNDS

1958 - 1959

GENERAL ENDOWMENT FUND

Gift of W. Wyclif Walton	\$ 7.50
--------------------------------	---------

1949 CAMPAIGN SALARY FUND

Gift of Horatio C. Wood, M. D.	500.00
-------------------------------------	--------

CLASS OF 1933 - 25TH ANNIVERSARY FUND

Additional gifts of:

Henry B. Gilbert	\$225.00	
James Andrews, Jr.	100.00	
James M. Stanton, Jr.	275.00	
Philip Godley	<u>75.00</u>	675.00

JOHN E. HUME FUND

Legacy of John E. Hume, Deceased	35,000.00
--	-----------

FREDERIC H. STRAWBRIDGE FUND

Legacy of Frederic H. Strawbridge, Deceased	10,000.00
---	-----------

ARCHIBALD MACINTOSH FUND

Gift of Gilbert H. Marquardt, M.D.	500.00
---	--------

LOUIS JAQUETTE PALMER SCHOLARSHIP FUND

From Triangle Society	479.00
-----------------------------	--------

CLASS OF 1917 SCHOLARSHIP FUND

Additional gifts of:

Joseph W. Greene, Jr.	\$229.00	
John W. Spaeth, Jr.	<u>25.00</u>	254.00

JONATHAN M. STEERE SCHOLARSHIP FUND

Legacy of Jonathan M. Steere, Deceased	10,000.00
--	-----------

1949 CAMPAIGN SCHOLARSHIP FUND

Gift of Clarence E. Tobias, Jr.	500.00
--------------------------------------	--------

THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND

Additional gift	1,000.00
-----------------------	----------

JONATHAN & RACHEL COPE EVANS FUND

Gift of Harold Evans, Esquire	1,000.00
-------------------------------------	----------

JOHN G. WALLACE AWARD FUND

Gift of John G. Wallace	100.00
-------------------------------	--------

THE KURZMAN PRIZE FUND

Gift of Harold P. Kurzman	<u>2,784.38</u>
---------------------------------	-----------------

TOTAL DONATIONS FOR ADDITIONS TO FUNDS	<u>\$62,799.88</u>
--	--------------------

DONATIONS FOR ADDITIONS TO NON CONSOLIDATED FUNDS

WALTER R. FARIES SCHOLARSHIP FUND

Gift of Walter R. Faries	<u>\$57,950.00</u>
--------------------------------	--------------------

THE FRIENDS OF MUSIC AT HAVERFORD

Name	Amount	Name	Amount
Janet M. Agnew	\$ 2.50	Mr. Charles Ludington	2.50
Edward P. Alexander	12.50	Miss Marjorie N. MacCoy	10.00
Dr. & Mrs. Kenneth E. Appel	5.00	Jelen Traft Manning	5.00
Mrs. Charles M. Bartler	5.00	Dr. & Mrs. R. M. Martin	5.00
Mrs. H. K. Bauernfeind	10.00	C. C. Morris	5.00
Mrs. T. A. Benham	2.50	Caroline Newton	5.00
Mr. L. Joe Berry	5.00	Robert Scott Noone	10.00
Mrs. Warner Berthoff	5.00	Mrs. William A. Obodyke	5.00
Mrs. S. G. Biddle	5.00	Mrs. Frederick H. Osborn, Jr.	5.00
Eleanor A. Bliss	10.00	Mary P. Parsons	2.50
Mrs. Hugh Borton	5.00	Mr. & Mrs. Harry W. Pfund	5.00
Mrs. Ralph S. Bromer	5.00	L. Arnold Post	2.50
Mrs. T. R. S. Broughton	2.50	Mrs. Richard Recknagel	5.00
Robert Butman	2.50	Miss Marion Reed	5.00
Mr. & Mrs. Donald H. Byerly	5.00	Mrs. John F. Rich	10.00
Edytha M. Carr	2.50	Caroline Robbins	15.00
Mrs. John H. Carter	5.00	Samuel Rosenbaum	2.50
Mrs. Richard L. Cary	5.00	Dr. & Mrs. C. F. Sackett	5.00
Mrs. Theodore D. Casto	5.00	Mrs. E. R. Sargent	5.00
Mrs. Howard Comfort	2.50	Mr. & Mrs. Ralph M. Sargent	5.00
Frances Wistar-Brown Conti	5.00	Mrs. Charles C. Savage	20.00
Miss Elinor E. Curwen	5.00	Miss Ann Sayen	2.50
Mrs. Henry S. Drinker	100.00	Dr. & Mrs. Lewis C. Scheffey	5.00
Miss Gertrude Ely	12.50	Lawrence M. Siever	5.00
Woodruff J. Emlen	5.00	Mr. & Mrs. G. M. Langlay-Smith	5.00
Mrs. McClure Fahnestock	2.50	Miss Mary C. Smith	5.00
Miss Alice L. Farr	5.00	A. C. Soper	5.00
Mrs. C. B. Farr	2.50	Miss Margaret H. Steen	2.50
Mr. & Mrs. William F. Fisher, Jr.	5.00	Mary H. Steen	2.50
Clare Ray Ford	5.00	Marguerite Stelwagon	2.50
Dr. Robert E. Forster	2.50	Mrs. J. S. Stokes	5.00
Mrs. S. K. Fuller	5.00	S. Emlen Stokes, M.D.	10.00
Mrs. Clyfford Game	2.50	Miss Lucy Sutton	2.50
Mrs. Haskell Garson	5.00	Mrs. Howard M. Teaf, Jr.	2.50
Mr. & Mrs. R. L. Goodale	5.00	Mrs. Arthur H. Thomas	5.00
Dr. & Mrs. John W. Goppelt	5.00	Carol H. Thomas	5.00
Frances de Graaff	2.50	Helen Norris Tuttle	5.00
Miss Cynthia Griffin	5.00	Beatrice G. W. Ufford	5.00
Owen E. Grimm	5.00	Mrs. John van Hulsteyn	5.00
Miss G. H. Griscom	2.50	Mr. George Vaux	7.50
Lucy B. Harvey	2.50	Jane Walker	5.00
Miss Ethel Hastings	5.00	Robert I. Walter	5.00
Miss Am. M. Hawkins	2.50	Mrs. H. S. Warren	2.50
Mrs. Nathan Haward	5.00	Mrs. W. Brinton Whitall	2.50
Mrs. Charles J. Hepburn, Jr.	10.00	Mrs. F. Earl Williams	2.50
Mrs. Gilbert Hoag	5.00	H. Justice Williams	5.00
Robert W. Hopinks, M. D.	10.00	Ellen Winsor	2.50
Holland Hunter	7.50	Miss Dorothy Wire	5.00
Raymond Hutchinson	5.00	Owen J. Wister	15.00
John A. Kelly	5.00	Mr. & Mrs. Alexander C. Wood, Jr.	5.00
Mrs. William M. Kift	5.00	Mrs. Raymond Wright	2.50
Patricia G. Knapp	2.50	Mr. & Mrs. Laurence Wylie	10.00
Alice Lattimore	2.50	Mr. D. B. Zoob	5.00
Mrs. William E. Lingelbach, Jr.	5.00	Anonymous	9.00
Mr. & Mrs. Dean P. Lockwood	5.00		
Mrs. Bruce A. Ludgate, Jr.	5.00		
		Total	<u>\$671.50</u>

CONTRIBUTORS TO THE "LIBRARY ASSOCIATES"

Name	Amount	Name	Amount
Mr. & Mrs. Charles D. Abbott	\$ 10.00	Mr. & Mrs. William M. Maier	5.00
Miss Ann C. Almy	2.00	Mr. & Mrs. Richard M. Martin	2.00
Mr. & Mrs. George F. B. Appel	2.00	Miss Belle Matheson	5.00
Dr. & Mrs. Kenneth E. Appel	100.00	Miss Virginia A. McCall	3.00
Mr. & Mrs. Walter Baker	5.00	Mrs. Howard H. Mitchell	2.00
Mr. & Mrs. Wm. A. Battey	5.00	Mr. C. Christopher Morris	25.00
Mr. & Mrs. Paul Bleyden	5.00	Dr. & Mrs. Stuart Mudd	10.00
Mr. Benj. S. Brown	5.00	Miss Caroline Newton	5.00
Mr. & Mrs. Carroll T. Brown	5.00	Mrs. Carroll B. Nichols	4.00
Mr. & Mrs. William E. Cadbury, Jr.	2.00	Mr. & Mrs. Raymond T. Ohl	10.00
Mrs. John H. Carter	2.00	Miss Mary Parsons	2.50
Mrs. Geo. H. Chambers	4.00	Mr. & Mrs. Clarence E. Pickett	3.00
Dr. & Mrs. J. Howard Cloud	4.00	Mr. & Mrs. Conyers Read	10.00
Mr. & Mrs. Hayward H. Coburn	5.00	Mr. Layton B. Register	5.00
Mr. & Mrs. Howard Comfort	2.00	Dr. & Mrs. Jonathan Rhoads	5.00
Miss Margaret Conklin	100.00	Mr. & Mrs. John F. Rich	5.00
Mr. & Mrs. O. L. Coward	4.00	Mr. Charles S. Ristine	5.00
Mr. & Mrs. James A. Crawford	2.00	Mr. & Mrs. Leon H. Rittenhouse	2.00
Mr. & Mrs. Carlton Cressman	3.00	Miss Caroline Robbins	10.00
Mr. Claude A. Cubberly	2.00	Mrs. John M. Rusby	2.00
Miss Meribah C. Delaplaine	5.00	Mr. & Mrs. Wm. P. Sadler	10.00
Mr. & Mrs. Henry S. Drinker	10.00	Mr. & Mrs. Ralph M. Sargent	5.00
Mrs. Emmett R. Dunn	10.00	Dr. & Mrs. Lewis C. Scheffey	10.00
Mrs. McClure Fahnestock	5.00	Miss H. Louise Searle	2.00
Miss Kathryn V. Forrest	2.00	Mr. & Mrs. Frederic C. Sharpless	3.00
Mr. & Mrs. Louis C. Green	2.00	Mr. Lucius R. Shero	5.00
Miss Gladys H. Griscom	10.00	Miss Mary C. Smith	5.00
Mr. & Mrs. Richard M. Gummere	2.00	Mr. Freas B. Snyder	4.00
Mr. & Mrs. Edw. Haack	4.00	Mr. & Mrs. Arthur E. Spellissy	10.00
Mrs. Theodore H. Hart	2.00	Mr. & Mrs. Herbert W. Starr	5.00
Miss Ethel Hastings	10.00	Miss Margaret H. Steen	2.00
Mr. & Mrs. John V. Hastings, 3rd	2.00	Miss Mary H. Steen	2.00
Mr. & Mrs. Roy A. Helton	2.00	Mr. & Mrs. Wm. Steynen	4.00
Mr. & Mrs. Harrison S. Hires	25.00	Mrs. J. Stogdell Stokes	10.00
Mr. & Mrs. William L. Hires	5.00	Mr. Hugh E. Stone	10.00
Mr. & Mrs. Howard J. Hogenauer	25.00	Miss Gertrude Stout	5.00
Mr. & Mrs. Allen F. Horton	5.00	Mrs. Kenneth E. Stuart	10.00
Mr. & Mrs. Holland Hunter	2.00	Mr. & Mrs. Philip S. Sweetser	5.00
Mr. & Mrs. Ames Johnston	5.00	Mr. & Mrs. Allen M. Terrell	4.00
Mr. & Mrs. J. Barclay Jones	10.00	Miss Frances W. Terry	2.00
Miss Mary Hoxie Jones	2.00	Mr. Daniel D. Test, Jr.	5.00
Miss Miriam Jones	2.00	Mrs. Arthur H. Thomas	5.00
Mr. & Mrs. John D. Kenderine	5.00	Miss Carol H. Thomas	5.00
Mrs. William M. Kift	3.00	Dr. & Mrs. Henry M. Thomas, Jr.	2.00
Dr. & Mrs. John M. Kimmick	2.00	Miss Nora B. Thompson	5.00
Mr. & Mrs. M. Alexander Laverty	4.00	Mrs. Albert C. Tyler	10.00
Mr. John A. Lester	5.00	Mr. W. Wyclif Walton	2.00
Mrs. Arthur Leverkus	2.00	Mr. & Mrs. W. Nelson West, 3rd	5.00
Mr. & Mrs. M. Albert Linton	10.00	Mr. & Mrs. Gilbert F. White	3.00
Miss Dorothy H. Litchfield	15.00	Miss Margaret Whitney	5.00
Mr. & Mrs. D. P. Lockwood	2.00	Miss Elizabeth Williamson	2.00
Mr. & Mrs. Arthur B. Loder	5.00	Mr. & Mrs. Wm. M. Wills	2.00
Rev. & Mrs. Anders F. Lunde	3.00	Miss Rebecca B. Wistar	5.00
Mr. & Mrs. Wallace T. MacCaffrey	15.00	Mr. Thomas Wistar	10.00
Miss Beatrice MacGeorge	5.00		
Mr. & Mrs. Archibald MacIntosh	2.00		
Mr. Jas. P. Magill	10.00		
		Total	<u>\$803.50</u>

CONTRIBUTORS TO ANNIVERSARY GIFTS

Class of 1909

Allan J. Hill	
Frank M. Ramsey	
J. W. Stokes	
Charles B. Thompson	
M. Herbert Watson	\$ 335.00

Class of 1933

James Andrews, Jr.	
Horace K. Dugdale, Jr.	
Frederick L. Fuges	
DuRelle Gage, Jr.	
Luther S. Green, Jr.	
William L. Hardham	
Bernard V. Lentz	
Robert W. Thompson	
Frederick A. VanDenbergh, Jr.	
Thomas R. White, Jr.	
David Wilson	1,355.00

Class of 1934

Robert C. Atmore	
Charles M. Bancroft	
Robert H. Beaven	
Lewis H. Bowen	
Thomas S. Brown	
Gerhard H. Bye	
Robert Colomy	
Fritz K. Downey	
John L. Dusseau	
Louis W. Flaccus, Jr.	
Grant V. Frazer	
J. Morton Fultz, Jr.	
Richard O. Gibbs	
Leonard L. Greif, Jr.	
William H. Haines, III	
Ellwood M. Hammaker	
Charles W. Hart	
Samuel Hassman	
Edward M. Hendrickson	
Byron Hipple, Jr.	
Henry Holtz	
Ray B. Houston	
Hunt B. Joaes	
R. Bruce Jones	
Frank Lee Kennedy	
Thomas M. Knight, III	

Class of 1934 (continued)

James B. Leeds	
J. Douglas Lockard	
Benjamin S. Loewenstein	
William F. Maxfield	
John Monsarrat	
Herbert J. Nichol	
Richard R. Pleasants	
Philip B. Richardson	
Norman J. Rush	
Henry G. Russell	
Margaret G. Russell	
Roger Scattergood	
Clinton Scilipoti	
Frank T. Siebert	
Arthur G. Singer, Jr.	
Bruce D. Smith	
William Wharton Smith	
H. Miles Snyder	
Matt W. Stanley	
Francis W. Stork	
Harcourt N. Trimble, Jr.	
Edwin P. Tripp, Jr.	
Edwin C. White	
Mason Williams	
F. Hamilton Wright	
Willard M. Wright, Jr.	\$5,210.95

Class of 1935

Chapman Brown	
B. Bartram Cadbury	
Woodruff J. Emlen	
Edward J. Matlack	
Charles T. Nicholson, Jr.	
Graham Rohrer	
Charles F. G. Smith	
Martin P. Snyder	
William Tatem	
Robert P. Wells	335.00

Class of 1936

William R. Fry	
J. Don Miller, Jr.	
Joseph D. Purvis, Jr.	
Henry L. Tomkinson	905.00

Total \$8,140.95

CONTRIBUTORS TO THE GEORGE TAI SCHOLARSHIP

Name	Amount	Name	Amount
George School.....	\$ 411.00	John F. Rich.....	60.00
Dean Carpenter.....	50.00	Albert E. Savage.....	50.00
Jean Stanton Carson.....	50.00	James B. Smith.....	10.00
Meade Cauffiel.....	75.00	Lawrence N. Taylor.....	25.00
Howard Comfort.....	75.00	Gordon H. K. Turner.....	10.00
Charles H. Frazier.....	75.00	Edward P. Van Tine.....	50.00
Harold D. Greenwell.....	75.00	W. Wyclif Walton.....	75.00
Gaylord P. Hornwell.....	75.00	Donald E. Wilbur.....	50.00
Paul R. Haviland.....	10.00	Redeposit of unspent balance -	
John F. Headly.....	50.00	Tai a/c.....	46.75
Howard J. Hogenauer.....	100.00		
Philip G. Rhoads.....	75.00		
			<u>\$1,497.75</u>

CONTRIBUTORS TO ANNUAL GIVING

1882

Amount Given — \$75

Edward Randolph

1887

Amount Given — \$40

Edward F. Chillman

1892

Amount Given — \$325

Augustine W. Blair

Walter Morris Hart

Stanley R. Yarnall

1893

Amount Given — \$360

Clarence Hoag

Barton Sensenig

Edward Woolman

1894

Amount Given — \$325

Henry S. Conard

George B. Dean

Clifford B. Farr

Frederick P. Ristine

1896

Amount Given — \$33

Arthur F. Coca

John A. Lester

1897

Amount Given — \$590

Thomas M. Chalfant

Wager Fisher

Charles H. Howson

William G. Rhoads

Edward Thomas

1898

Amount Given — \$780

William W. Cadbury

Vincent Gilpin

F. Sims McGrath

S. Rowland Morgan

Frederic Stadelman

Francis R. Strawbridge

Robert N. Wilson

Thomas Wistar

1899

Amount Given — \$335

William A. Battey

Edward H. Lycett, Jr.

Louis R. Wilson

1900

Amount Given — \$797

Charles J. Allen

Francis R. Cope, Jr.

Henry S. Drinker

Frank M. Eshleman

Henry M. Hallett

Samuel W. Mifflin

Heber Sensenig

Frederic C. Sharpless

Abram G. Tatnall

Edward B. Taylor, Jr.

1901

Amount Given — \$90

Ellis Y. Brown, Jr.

Howard V. Bullinger

William E. Cadbury

Lovett Dewees

J. Leiper Winslow

1902

Amount Given — \$785

C. Reed Cary

Edward W. Evans

Richard M. Gummere

William C. Longstreth

Percival Nicholson

John L. Stone

E. Earl Trout

Alexander C. Wood, Jr.

1903

Amount Given — \$90

Henry J. Cadbury

Hervey M. Hoskins

I. Sheldon Tilney

Howard M. Trueblood

1904

Amount Given — \$1,355

Howard H. Brinton

John W. Charles

George K. Helbert

William M. C. Kimber

Bernard Lester

C. Christopher Morris

Harold H. Morris

C. Raymond Owen

James M. Stokes

H. Norman Thorn

E. Porter West

William M. Wills

Samuel C. Withers

1905

Amount Given — \$635

Thomas M. Bales

Sydney M. Boher

Charles S. Bushnell

Henry G. Cox

Benjamin Eshleman

Arthur H. Hopkins

Paul Jones

E. Converse Peirce

Glyndon Priestman

Elias Ritts

Sigmund Spaeth

Herman K. Stein

Chester J. Teller

Edwards F. Winslow

1906

Amount Given — \$496.31

Walter Carson
Thomas Crowell
Gordon H. Graves
Thomas P. Harvey
Jackson Maloney
Albert K. Smiley
John A. Stratton
Joseph J. Tunney

1907

Amount Given—\$1,674.95

Karl J. Barr
Richard Cadbury
George B. Comfort
Walter L. Croll
Harold Evans
Wilbur H. Haines
Francis D. Godley
Lee E. Hood
Ernest F. Jones
James P. Magill
Alfred B. Morton
Jose Padin
Emmett R. Tatnall
Charles C. Terrell
W. Butler Windle

1908

Amount Given—\$1,025

Carroll T. Brown
Dudley D. Carroll
J. Browning Clement, Jr.
Clifford C. Collings
Thomas C. Desmond
Edward A. Edwards
J. Passmore Elkinton
J. Jarden Guenther
Thomas R. Hill
W. Wesley Kurtz
M. Albert Linton
T. Morris Longstreth
W. Haviland Morriss
Loren C. Petry
Charles H. Rogers
Winthrop Sargent, Jr.
Walter R. Shoemaker
Walter W. Whitson
Raymond C. Woodward

1910

Amount Given—\$1,165

E. Page Allinson
Lawrence H. Barrett
Earlham Bryant
Earl S. Cadbury
Hollie E. Crow
Edward W. David
E. Nelson Edwards
Ralph R. Eltse
Rodney M. Eshleman
Harold A. Furness
Carroll A. Haines
Harrison S. Hires
John D. Kenderdine
George A. Kerbaugh
Charles M. Leininger
Henry C. Lewis
Philip J. Noel-Baker
Walter Palmer
Charles S. Ristine
Willard P. Tomlinson
Eugene R. Zieber

1911

Amount Given — \$757

Daniel B. Boyer
John S. Bradway
Philip B. Deane
Herbert V. Gallager
Wm. D. Hartshorne, Jr.
L. Arnold Post
Joseph H. Price
D. Duer Reynolds
Victor Schoepperle
Lucius R. Shero
Gibson Smith
Howard G. Taylor, Jr.
Charles Wadsworth, III
Caleb Winslow
Alan S. Young

1912

Amount Given—\$1,066

Albert L. Baily, Jr.
Mark Balderston
Stacey K. Beebe
Albertus L. Biedenbach
Douglas P. Falconer

Leslie W. Ferris
Walter F. Graham
Herbert M. Lowry
Robert E. Miller
Charles T. Moon
Sydney S. Morris
J. Hollowell Parker
Irvin C. Poley
Leonard C. Ritts
Thomas E. Shipley
Lloyd M. Smith
Henry M. Thomas, Jr.
Charles H. Wetzel

1913

Amount Given — \$688

Joseph M. Beatty
Paul H. Brown
William S. Crowder
Frederick A. Curtis
Francis H. Diamant
Norris F. Hall
Elisha T. Kirk
Stephen W. Meader
Lloyd H. Mendenhall
George Montgomery
Herbert V. Nicholson
Oliver M. Porter
Frederick P. Stieff
Norman H. Taylor
L. Ralston Thomas
John V. VanSickle
William Webb
N. McDonald Wilder
George Winslow

1914

Amount — \$6,078.80

H. Ernest Bell
Jules S. Bentley
Walter G. Bowerman
Carroll D. Champlin
Leonard B. L. deSabran
George V. Downing
C. Willis Edgerton
Alfred W. Elkinton
Thomas W. Elkinton
Joseph C. Ferguson
Lewis J. Finestone

John K. Garrigues
 J. Paul Green
 Edward M. Jones
 Harold M. Lane
 Robert A. Locke
 Rowland P. McKinley
 Harold S. Miller
 Douglas L. Parker
 Baxter K. Richardson
 Herbert W. Seckel
 Robert C. Smith
 Francis C. Stokes
 S. Emlen Stokes
 John A. Stout
 Leonard V. H. Thomas
 Thomas Tomlinson
 Douglas Waples
 Charles R. Williams

1915

Amount Given — \$505
 Percival R. Allen
 Edgar M. Bowman
 Edgar C. Bye
 G. Cheston Carey
 Cyrus Falconer
 George Hallett, Jr.
 Harold W. Helveston
 Hubert A. Howson
 Leroy D. Locke
 Harlan L. McCracken
 Joseph McNeill
 Felix M. Morley
 Elmer L. Shaffer
 Walter E. Vail
 Donald B. Van Hollen
 Ernest N. Votaw

1916

Amount Given — \$1,395
 Ralph V. Bangham
 Frederick C. Buffum, Jr.
 Frank W. Cary
 J. Arthur Cooper
 Bolton L. Corson
 George A. Dunlap
 James S. Ellison
 Albert G. Garrigues
 William T. Hannum

Lawrence G. Heaton
 Perry A. Hunter
 H. Alden Johnson
 Raymond C. Kendig
 John Kuhns
 Philip L. Leidy
 John G. Love, Jr.
 Edward F. Lukens, Jr.
 Sidney Marine
 William L. Martwick
 Edward R. Moon
 Charles H. Oberholtzer
 Joseph Stokes, Jr.
 Douglas C. Wendell
 Joseph D. Wood

1917

Amount Given — \$1,055
 Ernest L. Brown
 J. Howard Buzby
 William H. Chamberlin
 Donald Chandler
 Loring Dam
 Jesse G. Forsythe
 William J. Gardiner
 Albert W. Hall
 Weston Howland
 H. Lawrence Jones
 M. Alexander Laverty
 Hugh E. McKinstry
 Arthur H. Napier
 Newlin F. Paxson
 Edmund T. Price
 Carl M. Sangree
 Wendell D. Schoch
 John W. Spaeth, Jr.
 Arthur E. Spellissy
 J. Clayton Strawbridge
 Harold Q. York

1918

Amount Given — \$728
 John W. Alexander
 Harrison H. Arnold
 Robert Barrie, Jr.
 John H. Beeson
 Herbert H. Bell
 Bennett S. Cooper

J. Marshall Crosman
 Stephen Curtis
 Frank Deacon
 Alfred H. Dewees
 Neil Gilmour
 Robert B. Greer
 Henry M. Hallett
 William H. Harding
 Lewis E. Hartman
 Joseph M. Hayman, Jr.
 John A. Hisey
 John W. Kendall
 Malcolm D. Kerbaugh
 Henry W. Koons
 Jacques LeClerq
 Louis C. O. Lusson
 William M. Mussetter
 Herbert J. Painter
 W. Ralph Porch
 Edward A. G. Porter
 Harry P. Schenck
 Joseph W. Sharp, III
 Morris S. Shipley
 David R. Stief
 Oliver P. Tatum
 John W. Thacher
 Percy S. Thornton
 Albert H. Tomlinson
 Alfred J. Townsend

1919

Amount Given — \$854
 Hudson Chapman
 Thomas P. Dunn
 Francis Goodhue, III
 Edgar B. Graves
 William F. Hastings
 John S. Haynes
 George H. Hubler
 Stewart Huston
 Thomas McConnell, III
 A. Douglas Oliver
 Walter P. Shipley, Jr.
 Frederic H.
 Strawbridge, Jr.
 Cleaver S. Thomas
 Elmer H. Thorpe

1920

Amount Given— \$2,030.50

Truxton B. Brodhead
Frank L. Campbell
Herman Carus
Benjamin Collins
J. Russel Fitts
Edwin O. Geckeler
Frank T. Gucker
Milton A. Kamsler
Thomas H. Kearney
A. Douglas Knowlton
James T. Mullin
Robert L. Petry
J. Elsworth Rogers
Horace F. Spencer
Granville E. Toogood
John S. Williams
Richard R. Wood
Granville Worrell

1921

Amount Given— \$1,631

H. Walton Arrowsmith
Jervis J. Babb
James M. Baker
C. Addison Brinton
Elliot W. Brown
Paul H. Caskey
Melvin A. Cawl
Peter Donchian
Cornell M. Dowlin
S. Newcomb Ewan, Jr.
Edward C. Haines
Alan W. Hastings
Eugene B. Heilman
Herschel C. Henderson
John R. Hoopes
William T. Jebb
J. Barclay Jones
John H. Klaren, Jr.
Henry W. Kumm
Julien S. Long
John MacAdam
Archibald MacIntosh
John D. Miller
Samuel A. Nock
Raymond T. Ohl
M. Huyett Sangree

C. Wilbur Ufford

Benjamin B.

Weatherby, II

Robert N. Wood

1922

Amount Given — \$747

Charles D. Abbott
Noel S. Arrowsmith
John B. Barker
Henry S. Fraser
John F. Gummere
Richard W. Janney
Frederick S. Miller
Thomas R. Montgomery
Elliston P. Morris
Chauncey G. Paxson
Foster N. Perry
Harry W. Pfund
Richard M. Sutton
Edward A. Taylor
Kenneth B. Walton
J. Colvin Wright
Edwin W. Zerrer

1923

Amount — \$1,948.75

Russel G. Allen
John C. Borton
H. Tatnall Brown, Jr.
Hal G. Farrar
Guilford D. Fisher
Frank P. Flint
Frank S. Flowers
Gilbert C. Fry
G. Randle Grimes
E. Kenneth Haviland
C. Dixon Heyer
Garrett S. Hoag
William C. Hunsicker, Jr.
Wilmot R. Jones
S. Brooks Knowlton
Robert W. Leeds
Andrew L. Lewis
Loyal D. Martin
Thomas S. Mutch
Thomas Parke
Dudley M. Pruitt

Robert Schultz

Benjamin H.

Shoemaker, III

John B. Stevenson

Alfred L. Test

Wayne M. Wagenseller

Charles Warner, Jr.

Farnham Warriner

Nelson A. White

Gerald Wilson

1924

Amount Given—\$2,022.50

Charles F. Bader
Courtland B. Brinton
Hugh P. Brinton
J. Stanton Carson
Charles H. Frazier
Harold D. Greenwell
Gaylord P. Harnwell
Paul R. Haviland
John F. Headly
Howard J. Hogenauer
Morris W. Mead, Jr.
Arthur Mullin
Edward B. Patterson
Harold C. Payne
Philip G. Rhoads
John F. Rich
En Shui Tai
Lawrence N. Taylor
Gordon M. Turner
Edward P. VanTine
W. Wyclif Walton
W. Nelson West, III
Donald E. Wilbur

1925

Amount — \$1,353.50

Conrad B. Acton
Eric G. Ball
Robert C. Bates
William L. Bayer
Wray D. Bentley
Geoffroy Billo
Leigh E. Chadwick
Douglass W. Eiseman

Edward L. Gordy
 H. Richard Heilman
 William E. Hinrichs
 Irving Hollingshead
 Henry F. House
 Alfred P. Hulme
 Phillips Johnson
 Ames Johnston
 Karl G. Kumm
 Hugh Montgomery
 Warren W. Newman
 Jesse T. Nicholson
 Chalmers V. A. Pittman
 Owen B. Rhoads
 William D. Rogers
 Albert E. Savage
 Charles C. Sellers
 John A. Silver
 Francis M. Stifler
 Henry H. Strong
 Harold B. Taylor
 Benjamin B. Warfield
 Austin Wright
 Harman A. Yerkes

1926

Amount — \$1,288
 Francis H. Ale
 Schuyler F. Baldwin
 Robert Barry, II
 Hugh Borton
 Alfred E. Buck
 Alfred Busselle, Jr.
 John B. Calkin
 Francis F. Campbell
 Alexander R. Carman, Jr.
 Franklin O. Curtis
 Henry C. Evans
 Charles H. Greene
 Robert L. Haines
 Edmund P. Hannum
 Dalzell F. Hartman
 Robert L. Hatcher
 Harris G. Haviland
 Wayne G. Jackson

J. Dean Joly
 Edward H. Kingsbury
 Victor A. Lamberti
 Winthrop M. Leeds
 Benjamin H. Lowry
 J. Howard Marshall
 Willard E. Mead
 Merle M. Miller
 Francis J. Nock
 Fred Rodell
 Charles E. Sumwalt
 Alexander R. S. Wagner
 Edward S. Wood, Jr.

1927

Amount Given— \$849.50
 Addison J. Allen
 Samuel A. Armstrong
 Harold E. Bates
 M. Ward Bayles
 John H. Biddle
 Charles A. Clement
 Herman E. Compter
 Samuel Cook
 Daniel M. Cox
 Leopold S. David
 Allan B. Fay
 John E. Forsythe
 Albert V. Fowler
 J. Richard Gott, Jr.
 William O. Grover
 John L. Heller
 John H. Hoag
 Stewart A. Hoskins
 William L. G. Lester
 I. Wilmer Miller
 Paul W. Ohl
 George H. Renninger
 Herbert C. Rorer
 S. Stansfeld Sargent
 William W. Saunders
 Watson Scarborough
 Arthur W. Silver
 W. Burr Totten

1928

Amount — \$1,982.50
 James W. Alcorn, Jr.
 Carl F. Berlinger
 William R. Bready, III

Frederick M. Burgess
 Leslie A. Cretty
 Royal S. Davis
 John T. Evans
 John O. Fitzsimmons
 E. Dean Flint
 C. Keely Fox
 W. Addison Fox
 Walter J. Gruber
 A. Burtis Hallock, Jr.
 Theodore B. Hetzel
 Richard L. Hillier
 Nelson J. Hogenauer
 Allen F. Horton
 J. Quincy Hunsicker, III
 J. McLain King
 Richard T. Lane
 John S. McConaghy
 Michael McEntee
 Oliver W. Melchior
 James E. Mitchell
 James M. Moffett
 S. Burkhart Morrison
 Henry S. Murphey
 Alexander L. Nichols
 Eric H. Renwick
 Jonathan E. Rhoads
 Ingram H. Richardson
 Donald W. Richie
 Louis F. Richter
 Charles A. Robinson
 J. Cecil Rowe
 Osman J. Seeds
 Franklin W. Smith
 Ellsworth B. Stevens
 J. Tyson Stokes
 Charles M. Tatum
 Herbert F. Taylor
 Allen C. Thomas, Jr.
 Thomas S. Whiting
 Theodore Whittelsey, Jr.
 Richard Wistar
 John W. Woll
 Leonard E. Yoder

1929

Amount — \$1,388
 David C. Bevan
 John A. Bishop
 W. Wendall Blancke

Samuel T. Brinton
 Roger C. Brown
 Charles H. Collison
 John R. Cooper
 Carroll L. Corson
 Robert M. Cunningham
 F. Curtis Dohan
 James G. Downward
 Herbert K. Ensworth
 Nathan T. Folwell, Jr.
 John P. Fox
 George S. Garrett
 Charles M. Hamilton
 John G. Hartman
 Arthur S. Hawthorn
 Everett H. Hemphill
 Halsey M. Hicks
 George W. Johnson
 Kenneth E. Kingham
 William S. Lane
 Davis D. Lewis
 Alexander A. Liveright
 Joseph E. MacNamee
 James S. Maier
 Alfred Mellor, II
 J. Hamor Michener
 Ralph L. Miller
 Lionel C. Perera
 Gerald F. Rorer
 J. Clifford Scott
 Francis W. Sharpless
 Walter Sondheim, Jr.
 Robert C. Sullivan
 Daniel D. Test, Jr.
 Burrell H. Tripp
 Alexander H. Ware
 Harold L. Wilt
 F. Howell Wright

1930

Amount Given—\$1,827
 Bradford S. Abernethy
 John L. Blackman, Jr.
 B. Franklin Blair
 W. Richardson Blair
 Roger L. Bloom
 Arthur H. Brinton
 James Brown, IV
 T. Ward Bruegel
 Victor E. Bullen

Donald R. Buxton
 Robert L. Dothard
 J. Richard Durham
 Theodore Evans
 Willem Ezerman
 J. Thorpe Feidt
 William D. Frazier
 W. Clark Hanna
 Joseph W. Martin
 William M. Masland
 C. Norton Maxfield
 Irvin W. McConnell
 Charles W. Miller, Jr.
 Joseph L. Miller
 Brewster H. Morris
 J. Howard Morris, Jr.
 Theodore H. Morris, III
 Martin I. Norr
 Edward Rosewater
 Newman S. Shirk
 Daniel Smiley
 Frederick W. Swan
 George Vaux
 Thomas Wistar, Jr.
 Thomas Wriggins, Jr.

1931

Amount—\$1,996

Marion A. Arthur
 Richard D. Browne
 J. Wendell Burger
 Thomas E. Burns, Jr.
 J. George Butler
 William E. Cadbury, Jr.
 S. Hall Conn
 Alfred R. Crawford
 George B. Edgar
 Robert F. Edgar
 John T. Emlen, Jr.
 F. W. Elliott Farr
 Robert L. Farr
 Robert W. Gabriel
 Lewis H. Gage
 Donald L. Gibson
 John T. Golding
 John H. Gray, Jr.
 John D. Gresimer
 Thomas B. Harvey
 James M. Houston

Kaufman R. Katz
 M. Jastrow Levin
 William M. Maier
 Adrian S. Mann
 Lauman Martin
 Richard L. Masland
 Raymond E. Maxwell
 Arthur J. Mekeel
 Charles S. Pennypacker
 Herbert W. Reisner
 E. Allan Schilpp
 Harris P. Shane
 Phillip B. Shaw
 E. Rodman Shippen, Jr.
 Edwin A. Speakman
 Frank N. Speller, Jr.
 Walter M. Teller
 Joseph T. Urban
 Nathaniel Weyl
 J. Borton Wills
 John H. Wills
 Evan M. Wilson
 George C. Wilt

1932

Amount Given—\$1,453
 Carl B. Allendoerfer
 Walter C. Baker
 William F. Brinton
 Joseph M. Cadbury
 David P. Cordray
 Gilbert David
 Walter I. Dothard, Jr.
 Philip L. Ferris
 Harry Fields
 Gifford P. Foley
 William T. R. Fox
 Herbert S. Gaskill
 F. Barton Gummere, III
 C. Robert Haines
 Harry G. M. Jopson
 William E. Miller
 Ellis C. Osgood
 William M. Pusey, III
 Joseph Rhoads
 Arthur S. Roberts
 Harold J. Schramm
 John W. Settle, Jr.
 William V. Sipple, Jr.

Albert Keith Smiley, Jr.
 Dana M. Street
 Charles S. Strickler
 Francis R. Walton
 Rudolf M. Wertime
 Robert S. Woodward, III
 John A. Zapp, Jr.

1933

Amount Given — \$710

Edson J. Andrews
 James Andrews, Jr.
 E. Theodore Bachmann
 Luther S. Green, Jr.
 Stephens T.

Gulbrandsen

Charles S. Jacobs
 Bernard V. Lentz
 John W. Masland, Jr.
 John F. McMahon
 Edward A. Moos
 George B. Rice
 William H. Russell
 John R. Sargent
 Henry W.

Scarborough, Jr.

Henry Scattergood
 Robert C. Thomson, Jr.
 Phillips S. Trenbath

Frederick A.

Van Denbergh, Jr.

Henry J. Vaux
 Thomas R. White, Jr.
 David L. Wilson

1935

Amount — \$100

Frank B. Burnside

1936

Amount — \$1,000

Mr. & Mrs. J.

Don Miller, Jr.

1937

Amount — \$1,535.91

William W. Allen, III
 Howard A. Andrews
 William H. Bond
 John A. Cantrell
 James G. Carr, Jr.
 Joseph R. Carson
 Stephen G. Cary
 William H. Daudt
 Henry S. Drinker, Jr.
 Hans B. Engelmann
 Bruce H. French
 Daniel C. Frysinger
 Allan W. Gilmour, Jr.
 Roger L. Greif
 Henry C. Gulbrandsen
 Marshall C. Guthrie, Jr.
 Roy C. Haberkern, Jr.
 Bernard M. Hollander
 Charles E. Holzer, Jr.
 James D. Hoover
 Andrew D. Hunt, Jr.
 Bun-ichi Kagami
 W. Lawrence Kimber
 Robert H. Kriebel
 Paul G. Kuntz
 John J. Lawser
 Robert W. Leibold
 John A. Lester, Jr.
 M. Albert Linton, Jr.

James H. Lockwood
 John B. Lukens
 Richard B. McLaughlin
 Frank E. Nulsen
 William A. Polster
 Joseph T. Rivers, Jr.
 Peter P. Rodman
 Edward H. Rosenberry
 Leslie B. Seely
 Henri C. Seibert
 Richard B. Shoemaker
 Herbert W. Taylor, Jr.
 J. Wallace Van Cleave
 Philip M. Whitman
 S. Vincent Wilking
 Arthur N. Wrigley

1938

Amount — \$1,599.50

Louis W. Bailey
 Robert M. Bird, Jr.
 Hoel L. Bowditch
 Richard S. Bowman
 Robert Burnside
 John T. Carson, Jr.
 Donald S. Childs, Jr.
 William H. Clark, Jr.
 Henry B. Cox
 Herbert T. Darlington, Jr.
 Aubrey C. Dickson, Jr.
 William Duff
 Charles R. Ebersol
 John A. Evert
 James M. George
 Robert P. Gilbert
 Jonathan Goldmark
 Louis B. Kohn, II
 William B. Kriebel
 Amos P. Leib
 Charles H. Ligon
 William H. Luden, Jr.
 George B. Mathues
 F. Huston McIlvain
 Leonard F. Norsworthy
 Dikran S. Pakradooni
 William E. Prindle, Jr.
 Frank M. Ramsey, Jr.
 Clayton E. Ranck
 Lindley B. Reagan
 James L. Rich
 Philip R. Shank
 William B. Sluss
 Charles F. Sponsler, Jr.
 Jonathan M. Steere, Jr.
 Hubert R. Taylor
 Irving Telling
 L. James Velte, Jr.
 William M. Webb
 E. Hambleton

Welbourn, Jr.

Edmund C. Wingerd

1939

Amount—\$1,660.50

Robert B. Ackerman
Alpheus Albert, Jr.
H. Lloyd Balderston, Jr.
Robert L. Balderston
John L. Birkinbine
William S. Bonham
George D. Bown
James H. Bready
Francis G. Brown
Stanley C. Clader
Henry H. Derr
Jonathan Evans
William E. Evans
J. Pierce Fenhagen
John M. Finley
John A. Flick
John D. Hallahan
John A. Hoyer
John J. Jaquette
Henry H. Jones
L. Crosby Lewis
Richard H. Lillie
William W. McCune
Harold H. Morris, Jr.
Louis H. Palmer
Oscar N. Rambo
Charles E. Rankin
Seymour S. Rice
Alan Roberts
Daniel G. Santer
Craig M. Sharpe
Winslow D. Shaw
T. David Shihadeh, Jr.
Laird H. Simons, Jr.
Thomas B. Steiger
John M. Sykes
Gilbert P. Talbot
John M. Tinnon
John P. Trench
William H. G. Warner
Maurice A. Webster, Jr.

Theodore A. Wertime
Robert O. Whitson
D. Norton Williams
John F. Wilson
Joseph C. Wingerd
Samuel Withers, Jr.

1940

Amount Given— \$510

Ernest G. Allen
Henry D. Balivet, Jr.
Chester E. Baum, Jr.
D. Baird Coursin
Emerson L. Darnell
Robert L. Dewees
John A. Duncan
Stanley M. Dye
David P. Fiaccus
John E. Gross
Hanford M. Henderson
Alexander C. Hering
John T. Hoffman
Robert J. Hunn
F. Allen Lewis
John M. Lindley, Jr.
Elliott Mason
Hayden Mason
Samuel G. M. Maule
Robert W.

McConnell, Jr.

William F. McDevit
Charles K. Peters
Thomas M. Taft
James A. Vincent
Charles H. Wolfinger
J. William Wood, Jr.

1941

Amount— \$1,047

Edward P. Allinson
Stephen B. Andrus
David B. Arnold
Arthur G. Ashbrook, Jr.
Harold R. Blackwell
Howard L. Blum
Richard H. Bolster
Albert D. Branson

Henry D. Cornman, III
Hunt Davis
Robert B. Dickson
John W. Dorsey
Christopher Evans
Robert W. Evans, Jr.
Robert N. Evert
Gerritt L. Ewing

Louis J. Finger
J. David Garmey
Philip C. Gifford, Jr.
Edwin D. Grosholz
Geoffrey Hemphill
Andrew F. Inglis
Roger B. Kent
Benton D. King
Jan W. Long
John R. McNeill
William K. Miller
M. Wayne Moseley
Samuel M. Murphy, Jr.
Arthur H. Napier, Jr.
J. Philip Neal
Wilson H. Pile
Edward R. Scheffer
David W. Shoemaker
Robert H. Smith
Samuel M. Snipes
Leon Solis-Cohen, Jr.
William W. Stainton
G. Ralph Strohl, Jr.
Harry H. Stuart
George C. Sutton
George M. Swan, Jr.
J. Bruce Swigert
Roy S. Vogt
John L. Webb, Jr.
Kenneth W. Weyerbacher
Kenneth A. Wright
Howard E. Ziegler, Jr.

1942

Amount— \$1,162.50

George L. Aldridge
Warren D. Anderson
E. Howard Bedrossian
Edgar D. Bell, Jr.
Burns Brodhead
Knox Brown

Thomas C. Cochran, Jr.
 Robert W. Dunham
 Roy A. Dye, Jr.
 Arthur Evans
 Walter C. Falconer
 John D. Farquhar
 Edward Flaccus
 John B. Flick, Jr.
 David S. Fox
 John A. Fust
 James F. Gary
 C. Kirk Greer
 Louis N. Grier, Jr.
 Gove Hambidge, Jr.
 Heber R. Harper
 Timothy P. Haworth
 Gordon W. Howe
 Henry W. Johnstone, Jr.
 Richard Kay
 Malcolm S. Kirkpatrick
 L. Theodore Lawrence
 Philip F. McLellan
 Clyde K. Nichols, Jr.
 Paul R. O'Connor
 Thor N. Rhodin, Jr.
 Kenneth S. Roberts
 L. Paul Saxer
 David M. Sensenig
 Robert N. Strausbaugh
 David C. Thompson
 John D. Thomson
 John H. Wise

1943

Amount Given—\$1,091
 Eugene E. Anderson, Jr.
 Arthur H. Bell
 J. Morris Evans
 Sumner W. Ferris
 James B. Gilbert
 John R. Hogness
 Byron E. Howe, Jr.
 Holland Hunter
 Lewis C. Kibbee
 David B. Kirk
 Howard B. Kriebel
 Leon Levintow
 H. Mather Lippincott, Jr.
 Russell M. Lyman
 Robert MacCrate

John C. Marsh
 Avrel Mason
 John M. Moon
 Sterling Newell, Jr.
 John B. Rhind
 Alan S. Rogers
 George M. Ryrie
 Arnold C. Satterthwaite
 John W. Severinghaus
 William Shihadeh
 John G. Shinn
 L. Gerow Smiley
 David D. Somers
 John W. Thacher, Jr.
 Alexander C. Tomlinson
 Haskell Torrence
 William T. Warren
 John C. Whitehead
 Carl E. Widney, Jr.
 R. Bayly Winder

1944

Amount—\$1,345
 C. Webster Abbott
 Charles S. Alden
 Ellsworth C. Alvord, Jr.
 L. Paul Bolgiano, Jr.
 John W. Clark
 William K. Conn
 J. Dee Crabtree, Jr.
 Cassin W. Craig
 Frederick A. Curtis, Jr.
 Robert B. Day
 George V. Downing, Jr.
 Thomas Elkinton
 Charles E. Fox, Jr.
 Jesse G. Grier
 Allan C. Hamilton
 Edmond E. Hammond, Jr.
 Robert W. Hill
 Walter Hollander, Jr.
 William McC. Houston
 George W. Hubler
 Edward B. Irving, Jr.
 John Sharpless Klein
 John M. Krom
 William R. McShane
 Daniel K. Miller

Gilbert H. Moore, Jr.
 Warren Moore, Jr.
 Arnold R. Post
 H. Royer Smith, Jr.
 David E. Stokes
 Samuel E. Stokes, Jr.
 Spencer R. Stuart
 Henry S. Vila
 Richard H. Warren
 Richard W. Watkins
 Douglas C. Wendell, Jr.
 James Howard Worl

1945

Amount Given — \$846
 Theodore C. Alford, Jr.
 Andrew P. Allinson
 William W. Ambler
 Warren C. Baldwin
 David E. Bassett
 John H. Bengé
 John H. Bush
 John R. Cary
 Frederick T. J. Clement
 Dorland L. Crosman
 Peter Deitsch
 George L. DeSchweinitz, Jr.
 Francis E. Fairman, III
 Henry H. Fetterman
 Forrest L. Gager, Jr.
 James L. Gilmore
 Edward H. Handy, Jr.
 Arthur R. Harned
 David Yi Yung Hsia
 Ralph B. Jackson
 Lewis M. Johnson
 James R. Johnston, III
 Arthur E. Jones
 Blackburn S. Joslin
 William T. Kirk, Jr.
 William L. Lehmann
 Philip C. Mann
 Charles E. Pancoast, III
 John W. Pierson, Jr.
 William Pinch, Jr.
 Edmond Preston, III
 Geert C. E. Prins

R. Arnold Ricks, III
 Dale B. Ride
 James A. Schnaars
 Charles A. Shields
 Drayton M. Smith
 Richard S. Valentine
 Christopher Van Hollen
 Stacey H.
 Widdicombe, Jr.
 Daniel H. Wingerd
 James B. Wright
 Llewellyn P. Young

1946

Amount Given — \$864.75
 Robert H. Bedrossian
 Thomas M. Birdsall
 Arthur E. Bryson, Jr.
 Jonathan F. Bushnell
 Ward C. Case
 William D. Chapman
 Edward M. Cook, Jr.
 William T. Delp
 Hugh Mcl. Edgerton
 Merrill Goodman
 Thomas P. Goodman
 Robert E. Henderson
 Paul M. Henkels, II
 Theophilus J. Herter
 Walter Y. Kato
 Richard B. Kirkpatrick
 Bertram M. Kummel
 William M. Lee
 Ben Z. Leuchter
 Harold V. Lynch, Jr.
 Donald B. McNeill
 Thomas W. Meldrum
 George Montgomery, Jr.
 Peter S. Olmsted
 Robert N. Price
 Richard C. Rogoff
 Thomas J. Ryan
 Charles C. Ryrie
 Charles S. Sangree
 David S. Stewart
 Joseph Stokes, III
 James F. Sutor
 Donald F. Treat
 M. Gordon Wolman

1947

Amount Given — \$265
 William H. Annesley, Jr.
 Peter G. Bennett
 Charles A. Doehlert
 Inge Rolv Lind
 George Nicklin
 Richard D. Rivers
 Robert P. Roche
 Martin Sanders
 George H. Scott
 Howard W.
 Starkweather, Jr.
 Daniel H. Wagner
 H. Macy Whitehead

1948

Amount Given — \$446
 Monroe E. Alenick
 Timothy B. Atkeson
 William P. Barker
 William W. Bell
 Byron E. Besse, Jr.
 Joseph C. Birdsall, Jr.
 Daniel Drake
 Thomas T. Fleming
 William H. Harris
 John N. Hauser
 Lee W. Hawkins
 John K. Henne
 John R. Hoopes, Jr.
 J. Archibald Jacob, Jr.
 Alan M. Levensohn
 Robert Maquinay
 Samuel Mason, III
 Robert W. Meyers
 James F. Muench
 Paul F. Newman
 Martin Oppenheimer
 David A. Peters
 Richard W. Power
 Richard A. Schlegel
 Richard W. Schuman
 George W. Taggart
 Edward S. Wheeler
 Robert J. Widmer

1949

Amount Given—\$938
 John D. Anderson
 Omar Bailey
 Carlos Barraza
 Stuart M. Beck
 Addison S. Beckley
 Daniel S. Bernstein
 Sol Blecker
 J. Neil Boger
 Daniel Brodhead
 Harold J. Brownlee
 James C. Buckley
 John R. Bullock
 Warder H. Cadbury
 Thomas P. Crolius
 F. James Dallett, Jr.
 Marc D. Daudon
 Carmen DiGiovanni
 Henry J. Dvorken
 Edward Echikson
 C. Willis Edgerton, Jr.
 Robert Edgerton
 Edmund K. Faltermayer
 Charles H. Geoffroy
 I. Robert Goodman
 William K. Gorham, III
 Thomas D. Graff
 G. Stanley Hammond
 David S. Hastings
 Donald Hayes
 R. Nichols Hazelwood
 John B. Henkels, III
 William L. Hires
 George L. Hoffmann
 Irving Hollingshead, Jr.
 F. Thomas Hopkins
 Robert G. Hoskins
 Harry A. Hume
 Ernest C. Hutchinson
 David S. Laity
 Thomas D. Langston
 Sperry Lea
 Jacob A. Longacre
 James Q. Miller
 Stephen R. Miller
 William H. Miller
 Robert L. Morris
 George H. Nofer, II
 Robert A. Prosser
 Douglas H. Richie
 George E. Ruff, Jr.
 Edward O. Shakespeare

Ellis P. Singer
H. Clement Smith II
Francis M. Snodgrass
Donald I. Sparks
David W. Stewart, II
Stanley R. Tarr
David E. Thomas
James H. Thorpe
Conrad W. Turner
Edwin E. Tuttle
John D. Tychanich
Robert H. Velte
Robert D. Williams
Robert A. Wingerd
Theodore C. Wright

1950

Amount Given—\$874

John T. Acton
Gordon B. Baldwin
Joseph A. Barnes, Jr.
L. Gordon Blasius
Edwin L. Brown
Nicholas Chantiles
Reginald B. Collier
George D. Colman
Brooks B. Cooper
James G. Deitz
Lester H. Dragstedt, II
John C. Dyson
A. Theodore Eastman
Richard M. Fletcher
Peter B. Flint
James H. Foster
Thomas B. Gerlach
Charles E. Gilbert
James B. Hastings
Robert J. Healey
Hoyt L. Hickman
William J. H. Hough, Jr.
Lawrence G. Imhof
Edgar M. Jamison, Jr.
A. Wilson Jones
John Z. Katz
Robert L. Kirk
Andrew M. Knowlton
E. Trail Mathias
William B. Miller

Roger M. Morrell
Kenneth M. Moser
Richard N. Myers
Merlin W. Packard
Robert Parke, Jr.
William S. Peifer
Robert Pollard, III
Charles W. Reninger
William L. Rhoads, III
Thomas M. Ridington
William Y. Rodewald
William Schwartz
Eugene Seder
Joseph W. Sener, Jr.
Paul R. Smith
Edward R. Snader, III
E. Thomas Snipes, Jr.
Harris I. Stern
Thomas Stern
Peter Stettenheim
Runcie L. Tatnall, Jr.
Edward W. Test
Thomas P. Thornton
John A. Todd
Keith H. Turley
John A. Vitello
William W. Vogel
Ian G. Walker
W. Brinton Whitall
Robert S. Wickham, II
James Wood, III
Andrew J. Zweifler

1951

Amount Given — \$883
H. David Abbott
S. Nwanneka Adimora
Donald S. Amussen
John E. Bell
Robert DeP. Brown
Gouverneur Cadwallader
Oscar W. Carlson, Jr.
Allen B. Clayton
Samuel Colman, Jr.
Richard K. Conant
John J. Cooney

Harold I. Cragin
Nevius M. Curtis
John H. Davison
Drew W. Deacon
Allen H. Dewees
John L. Dodge
Kenneth M. Dolbeare
Richard J. Eberly
Philip Edgerton
Robert B. Edmiston
P. Thomas Feeser
Philip J. Flanders
Floyd F. Ford, Jr.
Robert W. Freeman
James C. French
Thomas J. Garbaty
J. Brooke Gardiner
Charles D. Griffith
C. Dallett Hoopes
John M. Hume
Arkady Kalishevsky
F. Scott Kimmich
Wayne T. Kratz
Robert B. Kunkel
Gilbert M. P. Lieb
William F. Matlack
Davis B. McCarn
William P. Melcher
Frederick S. Miller, Jr.
Anthony J. Morley
Frederic O. Musser
Edward B. Patterson, Jr.
John F. Paulson
James C. Peden, Jr.
Darwin J. Prockop
R. James Quillen, Jr.
Andrew J. Scheffey
David W. Seith
Paul E. Shipley
Karl H. Spaeth
Peter K. Steere
Peter K. Thoran
David K. Trumper
Robert N. Tucker
Harold F. Vedova
Charles N. Welsh
D. Elliott Wilbur, Jr.
Alan T. Willoughby
William D. Wixom

1952

Amount Given— \$815.50

Robert W. Atkinson

Peter O. C. Austin

Small

Richard K. Barnes

Victor Basiuk

Philip J. Baur

Howard Bliss

William M. Boger

B. Donald Broadbelt

Donald Chandler, Jr.

Robert S. Chase

Robert McV. Collins

Allen P. Crolius

Peter W. Cummins

William A. Elliott

Curt F. Fey

Robert T. Foley

Marshall J. Foster

Robert J. Franke

Gerald Freund

Burrill M. Getman, Jr.

Vincent Gilpin, Jr.

Edgerton Grant

Eli B. Halpern

Daniel W. Hardy

Peter R. Haviland

Frederic V. Hetzel

Edward N. Hibberd, Jr.

Robert T. Ives

A. Clark Johnson, Jr.

Roger F. Jones

Frank Keetz

Donald G. Kirk

George E. Lamphere

Peter W. Lande

Lloyd O. Loechel, Jr.

Lawrence M. Leonard

David C. Mactye

Alfred B. McKenzie

Richard K. Mead

William D. L. Melcher

R. Richard Messick

Frank V. Miles

Paul C. Milner, II

Peter Oliver

George P. Perham

James B. Ranck, Jr.

G. Peter Rosenbaum

Hershel Shanks

W. Roger Sorg

F. C. Greeley Stahl

Paul L. Sterner, Jr.

F. Thomas Wilson

Richard E. Wilson

John W. Woll, Jr.

Thomas M.

Woodward, Jr.

Donald L. Young

1953

Amount Given — \$727.50

A. Reid Allison

R. Scott Anderson

Thomas M.

Anderson, Jr.

Harry H. Bair

Thomas N. Bisson

John F. Benton

John N. Burge, Jr.

David H. Caskey

David V. Clark

Jerome F. Crowley, Jr.

Robert T. Curran

William B. Davis, Jr.

Hugo L. Deaton

David N. Denman

Joseph S. Dibble

John Dixon

Raymond L. Falge, Jr.

Kenneth L. Fernandez

E. Lee Forker

George G. Fuller

Thomas H. Goldsmith

Roger C. Good

William F. Haines

Norris Hansell, IV

John C. Harris

Joseph E. Helweg, Jr.

Herbert W. Hickman

John R. Hitchcock

Bruce Z. Hollman

Hubert F. Howson

Herbert A. Huene

Milton H. Isay, Jr.

Karl W. G. Kumm

Richard T. Lane, Jr.

John W. Ledebuer, Jr.

John M. Leggett

Arthur W. Leibold, Jr.

Andrew L. Lewis, Jr.

Somervell Linthicum

Robert G. Logan

Robert S. Matteson

David Mayer

Lawrence C. Morris, Jr.

H. William Morrison

T. Morris Perot, IV

F. Jackson Piotrow

H. Edward Reed

Edward P. Rich

Burton R. Saidel

G. David Schlegel

Robert T. Seeley

Mark Sexton

John M. Somerndike

Philip R. Stansbury

John E. Steely

Joseph H. Stein, Jr.

Frederick D. Tabbutt

Lewis J. Thomas, Jr.

H. Yuan Tien

Philip G. Vance, Jr.

David C. Wilson

Mitchell Winn

Thomas A. Wood

1954

Amount — \$1,359.84

Bertrand F. Bell, III

Theodore G. Belote

Philip S. Benjamin

M. Wyllis Bibbins

William H. Bittel, Jr.

Richard B. Bourne

John C. Burton

Howard G. Burt

E. Kearney Carpenter

W. Wistar Comfort, II

Paul P. Craig

James D. Crawford

Joseph G. T. DeBerry

H. Michael Dunn

S. John Eagleton

James P. Felstiner
 Larry J. Finkelstein
 Stanley A. Forster
 Orrin Frink
 Charles Fry, Jr.
 Montgomery T. Furth
 John F. Garrity, Jr.
 Robert A. Glatzer
 Christian M. Hansen, Jr.
 Earl G. Harrison, Jr.
 John S. C. Harvey, III
 Conrad F. Hellwege, Jr.
 Thomas S. Hiers
 Edward P.

Hollingsworth, Jr.
 L. Morris Johnson
 William G. Kaye
 John H. Kelly
 David H. Kelsey
 Paul R. Klein
 Lawrence M. Lengel
 Mark C. Lissfelt
 Michael Moore
 I. Frederick Muth
 David R. Perry

Richard M. Polsky, Jr.
 R. Ronald Reno, Jr.
 Thomas B. Rentschler
 John B. Rettew, III
 Rodman S. Rothermel
 Stephen H. Sachs
 C. Edward Schofer
 Paul S. Seaver
 Richard W. Silver
 Edward M. Steele
 Richard K. Taylor
 T. Darrah Thomas
 George F. Todd, Jr.
 John Y. Trumper
 Carlo Veneziale
 William B. Watson
 Christopher White
 William C. Wilson
 Peter Woll
 John C. Wren

1955

Amount Given — \$462

Gerald S. Albright
 Jonathon P. Albright
 Alexander C. Allen
 John J. Allen
 Robert W. Alvord
 Robert P. Apmann
 Charles S. Armstrong
 Harris C. Arnold, Jr.
 Koya Azumi

Lee C. Bennett, Jr.
 Theodore Bledsoe
 James B. Bradbeer
 William S. Bradfield, Jr.
 James A. Braker
 Donald F. Cone
 Samuel C. Contakos
 Richard Croasdaile, Jr.

Roswell Eldridge

John B. Flint
 Marc A. Forman
 Alexander M.

Goldfinger, Jr.

Thomas B. Goodkind
 George W. Gray
 Henry I. Hamburger
 Kenneth G. Hamilton
 Robert Hinshaw
 David E. Hogenauer
 Johns W. Hopkins
 M. Alanson Johnson, II
 Ira E. Kanter

Chase D. Kepner
 Arthur Klein
 J. Robert MacKenzie
 Morton S. Mandell
 William S. Masland
 Robert D. Masterson
 John G. McDonald
 Grant Morrow, III
 Urban H. Moss, Jr.
 Charles F. Neuhaus
 Jay A. Noble
 John H. Osler, III
 Garth R. Parker
 Theodore G. Penick
 Paulding Phelps

Harrison C. Raper
 Robert E. Read
 Richard D. Rivers
 M. Huyett Sangree, Jr.
 Robert G. Schwartz
 John K. Speicher
 John M. Strotbeck
 David C. Sutton
 Robert G. Wilson
 William E. Wood

1956

Amount Given — \$525.50

George M. Anderson
 John K. Armstrong
 Peter H. Armstrong
 Vincent S. Averna
 J. Winsor Baker
 A. Ralph Barlow, Jr.
 Samuel A. McK Bishop
 Frederick M.

Burelbach, Jr.

Donald F. Cohill
 Philip D'Arrigo
 John H. Dick
 Franklin H. Duttonhofer
 Franklin Evans
 George H. Fettus
 Harold M. Friedman
 Robert J. Gage
 Thomas H. Garver
 John H. Gould
 Joseph E. Green, III
 Marshall G. Greenberg
 David G. S. Greene
 Robert B. Greer, III
 Norman Grossblatt
 Winfield S. Hall
 Daniel E. Harris
 John R. Hawkins
 Henry W. Hitzrot, Jr.
 Joseph L. Horner
 Robert Allen Irvine
 Richard A. Isay
 Otis S. Johnson
 George P. Keeley
 John L. Kemmerer
 Jerome J. Klinman

Stephen B.

Knowlton, Jr.

Theodore G. Kummer

Ernest Kurkjian

David A. Kushner

Thomas J. Ladenburg

Walter E. Langsam

Newell B. Mack

Michael Mann

William J. Marble

John F. Marquardt

Thomas W. Martenis

Robin S. McDowell

Arthur M. McLean

James L. McMasters

Donald C. Mead

Louis H. Miller

John L. Pfaltz

Theodore M. Regan, Jr.

John B. Rhoads

H. Burt Richardson, Jr.

Frederick N. Schwentker

David B. Seaver

Harold Stark Semans

Herbert W. Shaw, Jr.

Steven H. Sieverts

Michael E. Smith

Guy G. Sotomayer

Geoffrey H. Steere

Neil W. Swinton, Jr.

John W. Thomas

James L. Viney

Robert P. Wallace

David S. Walton

Harold D. Weaver, Jr.

D. Alexander Wieland, Jr.

Thayer Willis, Jr.

Lewis R. Woodham

1957

Amount Given — \$670.87

Anthony G. Amsterdam

Blaine L. Block

Robert C. Challener

Murray T. Charlson

Pierre Clavel

John G. Cope

Donald A. Crane

Robert W. Densford, II

Benjamin A. Dent

William P. Doherty, Jr.

Michael B. Donham

Henry M. Farrell

Richard T. T. Forman

Roger S. Foster, Jr.

James B. Francis, Jr.

Seth Gibson

Jay S. Goodman

Diller B. Groff, III

John B. Gruber

Benson H. Hart

Paul R. Haviland

Warren B. Hecht

Michael M. Heeg

Rolland H. Henderson

Henry B. Hoover, Jr.

P. Donald Hopkins

Allan A. Hunter, Jr.

Akira Iriye

Stanley B. Johnson, III

Robert W. Kilpatrick

Gary I. Kravis

Joel M. Levin

Robert J. Lindeman

Louis R. Matlack

Erik B. Mezger

William W. Moss, III

Daniel W. Nauman

William L. Newmeyer, III

Paul E. Nickel

Robert W. Noyes

Lincoln D. Paine

Peter M. Panken

Ralph Sansom

John R. Schott

Richard B. Smith

William D. Stine

Daniel W. Swift

Henry M. Thomas, III

Joseph S. Torg

Richard V. Wagner

John G. Wallace

James N. Whitney

E. Reed Wilbur

Jack N. Wilentz

Charles S. Winans

Howard L. Wolf

William A. Yost, III

Peter K. C. Zavitz

1958

Amount Given — \$145.81

John F. Adams

M. Ian Adams

Paul L. Aiken, Jr.

Nyles N. Barnert

Cheston M. Berlin, Jr.

William C. Bertolet

James L. Boyer

Alfred S. Buck

John F. Crawford

Robert L. Crist

David W. Ellis

George H. Ellison

Michael R. Fogel

Burton Friedman

Leigh M. Gelser

Allan Gold

Lawrence M. Hartmann

Eric J. Harrison

Richard M. Hill

James D. Holmes

Marvin W. Humphreys

George Hurchalla, Jr.

Douglas S. Kerr

Harold P. Kurzman, Jr.

Anthony A. Manheim

Thomas A. Medsger, Jr.

Jay P. Mohr

J. Wilson Myers

Kemble P. Nolte

Perkins C. Pedrick

Franklin H. Pennell, Jr.

Hermann K. Platt

Hollis F. Price, Jr.

Leighton A. Price

Boyd G. Ralph

Mark H. Randall

Jan A. Riegl

Paul G. Rodewald, Jr.

William A. Sayles

Richard E. Schramm

Earl J. Smith

E. Chadwick Squires

C. Howard Thomas, Jr.

Jon P. Tilley

Donald P. Winter

Roger D. Wollstadt

Graduate - Alumni Contributors

Amount given — \$293.50

Ira O. Kemble '95
Luther M. Hunt '96
J. Walter Tebbetts, '11
Robert H. Dann '18
Florence Cox '23
William A. Wolff '24
Gerald D. McDonald '28
Ivan C. Milhous '31
Allen M. Terrell '32
William D. Burbank '36
Clarence R. Perisho '39
Samuel D. Kron '40
Charlotte Brooks Read '44
Mary Esther Dasenbrock '45

Priscilla K. Goldthwaite '45
Laurama P. Pixton '45
Annette J. Reynolds '45
Mrs. Channing B. Richardson '45
Jean Litchman Trapido '45
Edwin B. Bronner '47
Richard M. Gummere '51
Mary Atalla Joury '52
S. Roy Schuckman '52
Daniel L. Hoffman '53
Joyce W. Povolny '54
Michael Gunther '55
Mrs. Robert R. O'Brien '55

NON ALUMNI CONTRIBUTORS

Amount given — \$19,100.99

Clariss Adams
Mrs. Claude E. Adams
Mr. and Mrs. J. Alfred Adams
John B. Adams
C. Vernon Albright
Alf S. Alving
Mr. and Mrs. Elmer Andrews
Jerome J. Aron
Dr. and Mrs. L. Earle Arnow
Mr. and Mrs. William E. Aronoff
John F. Barrett
Mrs. Philip J. Baur
Mr. and Mrs. Hugh Beggs
John H. Bertolet
William R. Bingham
Harold A. Bishop
Dr. and Mrs. John F. Blair
Mrs. Robert C. Blake
Mr. and Mrs. G. Laurence Blauvelt
Morton E. Block
Jack L. Bockol
Hugh Bonner
Benjamin Boshes
Paul C. Bucy
Dr. and Mrs. Leo B. Burgin
Mr. and Mrs. James C. Burton

Wilfred E. Campbell
James F. Carlin
Mr. and Mrs. Tin-Yuke Char
Walter H. Clark
Mrs. Carl Thomson Clarke
Dr. Frances M. Clarke
Richard E. Clemson
Morris U. Cohen
Mr. and Mrs. Robert T. Colburn
William C. Coles, Jr.
James W. Cornwell
James Cucinotta
Raymond Curtis
Maxwell Dane
Walter S. Davison
Douglass A. Decker
William L. J. DeNie
Francis B. Downs
Mr. and Mrs. Frank A. Duttonhofer
Mr. and Mrs. Elchanan Echikson
Mr. and Mrs. Henry Ecroyd
Peter J. Eidenberg
Dr. and Mrs. William H. Erb
Carl N. Fauntleroy
George L. Fernsler, Sr.
J. Wallace Forbes

Dr. and Mrs. Joseph T. Forster
 A. Stone Freedberg
 Mrs. Louis K. Freedman
 Mrs. Frances B. Friedman
 William G. Fullard
 John Gardiner, Jr.
 Mr. and Mrs. Milton J. Garrett
 Augustus Gibson
 John E. Gillmor
 Mr. and Mrs. Ellis A. Gold
 A. Allan Goodman
 Philip H. Gray
 Joseph E. Green, II
 Warren W. Green
 John Q. Griffith, Jr.
 Diller B. Groff
 Mr. and Mrs. Irvin J. Gruber
 Mr. and Mrs. A. Arthur Hartman
 Mr. and Mrs. Harland L. Hatch
 Mrs. Martin Hauri
 Mrs. Hubert M. Hayter
 Walter T. Henderson
 Charles L. Hobaugh
 Mr. and Mrs. William J. Hodge
 John H. Hornbaker
 Maurice Horwitz
 Mr. and Mrs. Donald K. Howard
 Mr. and Mrs. Charles Humphreys
 Mrs. Milton H. Isay
 Robert L. James
 Robert L. James, Jr.
 Mr. and Mrs. Allen O. Johnson
 Ashmore C. Johnson
 Mr. and Mrs. Arthur G. Jones
 Walter E. Kaegi
 Richard M. Kain
 Joseph Katowitz
 Samuel R. Kaufman
 Stanley E. Kerr
 Mr. and Mrs. Joe Kindig, Jr.
 Otto Klineberg
 Herman A. Klingemaier
 Mr. and Mrs. Alexander B. Klots
 Michael E. Kratz
 Mr. and Mrs. Robert M. Krone
 Mr. and Mrs. George K. Kummer
 Frank E. Lamphere
 Mrs. Jeannette L. Larson

Hal B. Lary
 Mr. and Mrs. Robert B. Lea
 Mr. and Mrs. Lawrence Linville
 Mr. and Mrs. Alvin Lippard
 Mr. and Mrs. Maurice E. Long
 William H. Long, Jr.
 Mrs. William Church Longstreth
 Albert A. Lucine
 Dr. and Mrs. Milo O. Lundt
 Otto Lutherer
 Mr. and Mrs. Kenneth A. MacLeod
 J. Gilbert Macort
 Emanuel Mandell
 Karl S. Manwiller
 Walter E. Margie
 Mr. and Mrs. George Martin
 Mrs. Philip N. Meade
 Mr. and Mrs. C. H. Sayre Merrill
 Charles W. Miller
 Cloy M. Miller
 Henry S. Miller
 Mr. and Mrs. Reid T. Milner
 Kenneth W. Morgan
 Frank Murphey
 Mr. and Mrs. Gordon B. Musgrove
 Dr. and Mrs. Harold E. Musser
 Franklin S. Nauman
 Mrs. Harold S. Ogden
 John W. Parker
 Mr. and Mrs. Thomas S. Parker
 David M. Paskow
 Mr. and Mrs. Harvey C. Perry
 Mr. and Mrs. William C. Petraske
 Hugo M. Pfaltz
 Harry Phillips
 Henry Phillips, Jr.
 Henry L. Pierson
 Ruth L. Pierson
 Mr. and Mrs. Victor Pinedo
 Mr. and Mrs. George K. Pursel
 Dr. and Mrs. William F. Putnam
 Ralph D. Quinter
 Mr. and Mrs. Henry A. Ramey
 Paul C. Raymond
 Albert Reiner
 Mr. and Mrs. Russell R. Reno
 Richard H. Rhoads
 Drs. George and Marie Riegl

William T. Robinson
 Mr. and Mrs. Henry F. Roevers
 Cuthbert H. Rogerson
 Edward Rondthaler
 Mr. and Mrs. Arthur Rosenbaum
 Samuel R. Rosenbaum
 Mrs. Edgar Rowland
 Dr. and Mrs. Fredric E. Sanford
 Benson N. Schambelan
 Lewis C. Scheffey
 Robert H. Scholl
 Dr. and Mrs. Abraham B. Schwartz
 Mrs. Leighton R. Scott
 Mr. and Mrs. Samuel C. Segal
 Herman S. Shafer
 Mortimer J. Shapiro
 William F. Shelton, II
 John E. Shepherd
 John C. Shillock, Jr.
 Samuel Shuman
 James Smillie
 L. Cheyney Smith
 Maurice Smith
 Peter Smith
 Dr. and Mrs. James R. Speer
 Mr. and Mrs. John P. Spiegel
 Mrs. Catherine T. Stadie
 Mrs. Howard Starkweather
 Mr. and Mrs. Solomon W. Steigman
 George H. Stein
 Edward J. Stevens, Jr.
 Mr. and Mrs. Hale W. Stevenson
 Willard P. Steward
 Mrs. Donald D. Swift
 Mr. and Mrs. Herbert K. Taylor, Jr.
 David Teitelbaum
 Horace Holden Thayer, Jr.
 C. Howard Thomas
 T. Ewing Thompson, Jr.
 Charles G. Thorne
 Dr. and Mrs. Herman H. Tillis
 Oscar C. Trabert
 Mr. and Mrs. Max Trumper
 Mr. and Mrs. Philip W. Vance
 Dr. and Mrs. Marcello Veneziale
 Mr. and Mrs. Roger T. Waite
 Mr. and Mrs. Harold D. Weaver
 Mrs. Sylvia Wedner

Edward H. Welbourn
 Mrs. Margaret Whitney
 William C. Wilentz
 Mr. and Mrs. Harold T. Williams
 Willis K. Wing
 Mr. and Mrs. Abraham D. Woldorf
 Mr. and Mrs. Cyrus C. Young

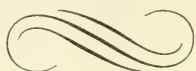


Mrs. Margaret Faires Baily
 Mrs. Elizabeth H. Beahm
 Miss Agnes Croll Blackburne
 Clement A. Borton
 Mrs. Robert Charr
 A. Reynolds Crane
 Mr. and Mrs. Franz Dykstra
 Edward R. Easton
 Miss Anna Cope Evans
 Mrs. Anna R. Evans
 Miss Mary Evans
 Mrs. McClure Fahnestock
 Miss Frances C. Ferris
 Mr. Louis B. Flexner
 Mr. Benjamin M. Gruenstein
 Nancy S. and Edward L. Holsten
 Archibald D. Jones
 Mary Hoxie Jones
 Virginia Trysdall Keeney
 Sylvia H. Kift
 Mrs. Mary W. Lee
 Paul S. Lippincott, Jr.
 Little Quaker Association
 Philip W. Markley
 Virginia A. McCall
 Louis J. McCloskey
 Janet G. Moore
 George L. Morris
 Mrs. Joseph Morris
 Mr. and Mrs. Stuart Mudd
 Mrs. Isaac Myers
 Caroline Newton
 Mrs. Jesse T. Nicholson
 Mr. and Mrs. Charles Orr
 Edna K. Paine
 Henry H. Perry
 Susan Y. Perry

Kendrick W. Putnam
Mrs. E. Allan Reynolds
Monawee Allen Richards
Robert L. Roberts, Jr.
Mr. & Mrs. Bernhard K. Stabert
Mrs. Mabel A. Stehley
Willard P. Steward
Frances W. Terry

Mr. and Mrs. Y. Toriumi
Frances Y. C. Warner
Mrs. A. Pawling Wesley
Robert Wetherald
Mrs. T. Barclay Whitson
H. Justice Williams
Thayer Willis
Arthur Morton Wilson, Jr.
Rt. Rev. Andrew Yu-Yue Tsu

Charles H. and Annetta R. Masland Foundation
Miles White Beneficial Society



The Bank of New York
Cabot Foundation Inc.
Dow Corning Corporation
Forest Paper Co., Inc.
General Electric Education and Charitable Fund
General Funds Fund, Inc.
Gulf Oil Corporation
S. Kind and Sons
McGraw-Hill Publishing Co., Inc.
The Merck Co. Foundation
The National Lead Foundation, Inc.
C. H. Norton Company
Pennsalt Chemicals Corporation
Scott Paper Company Foundation
Smith Kline and French Foundation
Towers, Perrin, Forster & Crosby
Wallingford Steel Co.

WILLIAM MAUL MEASEY TRUST

This Trust was established by William Maul Measey by Agreement dated June 27th, 1952 and supplementary Agreement dated April 26th, 1956.

The Trust Agreements provide that the income shall be granted as aid to students without restriction as to sex, race or religious affiliation, in selected secondary schools or colleges, who on the basis of character, scholarship and financial situation, merit assistance in continuing their education.

In secondary schools aid is to be given to students who live in the institutions during school terms, and not to day students.

The Capital of the Trust is to be invested solely in common or ordinary corporate shares.

At the request of the donor this is the only statement made of this Trust.

FINANCIAL STATEMENT

9/1/58 - 8/31/59

Book Value of Trust 9/1/58	\$1,142,784.08
Increase in Trust by realized capital gains	47,532.67
Book Value of Trust 8/31/59 (less than market value)	<u>\$1,190,316.75</u>

CASH STATEMENT OF RECEIPTS & EXPENDITURES

Principal

Cash Balance 9/1/58	\$ 2,502.37
Investments realized	183,767.46
	<u>\$ 186,269.83</u>
Investments made	\$ 135,209.22
Cash Balance 8/31/59	51,060.61
	<u>\$ 186,269.83</u>

Income

Receipts, disbursements and reserves

Income from investments and reserves - 9/1/57 to 8/31/58 \$ 70,058.16

Disbursements 9/1/58 to 8/31/59

To Haverford College for administration of Trust	\$ 6,543.09
To Haverford College for aid to 66 students	32,715.44
To other Colleges for aid to 7 students	4,000.00
To Secondary Schools for aid to 60 students	23,000.00
Reserve - 8/31/59 available to Haverford College for student aid	1,245.00
Reserve - 8/31/59 available to other Colleges and Secondary Schools	2,554.63
	<u>\$ 70,058.16</u>

In order that the income available from the Trust for aid to students may be known at the beginning of each fiscal year, such income is accumulated and not awarded nor disbursed until the following year.

The net income during the fiscal year from 9/1/58 to 8/31/59 amounted to \$66,370.28, of which under the terms of the Trust, The Corporation of Haverford College is entitled to 10 per-cent expenses of administration.

TRUST FUNDS

W. PERCY SIMPSON TRUST

Provident Trust Co. and William J. Clark Trustees

This perpetual Trust was established under the will of W. Percy Simpson, Class of 1890, who died Second Month 19, 1938. The will provides that one fourth of the net income from the residuary estate, after the death of his widow (who died in 1940) and of his son (who died in 1946), shall go to two grandchildren, and of the remaining three quarters one tenth shall go to Haverford College. Thus Haverford's share of the income now is 3/40th. The income comes partly from securities but largely from Texas Oil Royalties and rentals. Of the present income as estimated by the Trustees, Haverford's share is about \$1,875 per annum.

The will further provides "without imposing any obligation upon Haverford College, I recommend to it the advisability of expending the moneys which shall from time to time come to it under this will or so much thereof as may be required, for the examination and analysis of applicants for admission to the College with respect to their mental, physical and general qualifications, and of students therein for the purpose of determining the field of activity best suited to the individual."

The will further provides that whenever a vacancy shall occur by the death or resignation or otherwise of the individual Trustee, the selecting of a new Trustee shall be done by the governing body of Haverford College, and that if the College fails to perform this duty, the payment of further income to it shall terminate.

HENRY C. BROWN TRUST

Pennsylvania Co. for Banking and Trusts, Trustee

Founded Eighth Month 18, 1948, by bequest of estimated value of \$183,000 from Henry C. Brown, of Philadelphia, ex Class of 1866, to the Pennsylvania Co., in trust for benefit of Haverford College. The will provides that the income is to be used for current expenses. The will further provides that "the said College shall have power in its discretion to use a portion of the principal of the said trust estate not exceeding in any one year twenty per cent of the original fund for permanent purposes such as buildings, books and equipment proper for conducting the work of instruction and education."

NATHAN BRANSON HILL TRUST

Founded in 1904 by deposit with First National Bank and Trust Company of Minneapolis, Minn., Trust, of a paid up life insurance policy for \$5,000 by Samuel Hill, '78, being in memory of his father, Nathan Branson Hill. The income is to be used to aid in the maintenance of Haverford College so long as it shall remain under the auspices of the Society of Friends. In 1931 Samuel Hill died and the policy realized \$5,039. The Trust is to remain in the care of the above named bank, now known as First National Bank of Minneapolis, until twenty-one years after the death of Samuel Hill's son, James N. Hill, who is still alive. At that time, the Trust is to terminate and the principal is to be vested in Haverford College absolutely.

MARY FULLER COOK TRUST

Girard Trust Corn Exchange Bank, Trustee Under Deed, Dated July 29, 1948

This perpetual trust created by deed of Mary Fuller Cook, who died April 25, 1955, widow of J. Horace Cook, Class of 1881, became operative in so far as the college is concerned, July 14, 1957, upon death of a life tenant.

The income from this trust is to be added to that from J. Horace Cook Fund "subject to the provisions of that Fund, but with the understanding that if, in the judgment and discretion of the authorities of the college, such income shall be needed for purposes of the college other than scholarships, the college shall be free to so use it."

ENDOWMENT FUNDS

FUNDS FOR GENERAL PURPOSES

GENERAL ENDOWMENT FUND

Founded in 1847 with subscriptions of \$50,000 by a number of Friends. Additions were made as follows: 1868, from an anonymous source, \$5,000; 1869, bequest of Ann Haines to increase the compensation of professors, \$2,670; 1870, bequest of Richard D. Wood, \$18,682.96; 1872, from William Evans, \$1,000; 1874, from executors of Jesse George, deceased, \$5,000; 1880, bequest of Dr. Joseph W. Taylor, \$5,000; 1901, legacy of Ann Williams, \$2,425.50; 1941, from children of Aubrey C. Dickson in his memory, \$300; 1954, Maria Luisa Gildemeister, \$500; 1955, Estate of Elizabeth S. Dillinger, through Bessie Kohne Schenck, \$3,000. Present book value, \$101,802.64. The income is used for salaries and scholarships.

JOHN FARNUM MEMORIAL FUND

Founded in 1878 by the heirs of John Farnum by gift of \$25,000 as a memorial to him. Added to in 1899 by legacy of \$10,000 from Elizabeth H. Farnum, widow of John Farnum. The income only is to be used to endow a "professorship of some practical science or literature." The chair of chemistry was designated as the "John Farnum Professor of Chemistry." The principal is held in the name of three Trustees for the benefit of The Corporation of Haverford College. Present book value, \$31,741.22.

JOHN M. WHITALL FUND

Founded in 1880 by bequest of \$10,000 from John M. Whitall, Sr. Present book value, \$10,640.09. The bequest is upon the condition that the art of drawing, especially mechanical drawing, shall be taught, and the income only is to be used, and for this purpose.

DAVID SCULL FUND

Founded in 1885 by bequest of \$40,000 from David Scull, Sr. Present book value, \$44,806.59. The income only is to be used to endow a professorship. The chair of biology was designated as the "David Scull Professor of Biology."

EDWARD L. SCULL FUND

Founded in 1865 by net bequest of \$9,500 from Edward L. Scull, '64. The legacy was added to the General Endowment Fund, but in 1888 it was set apart as a separate fund. Present book value, \$11,364.35. The income only is to be used. The bequest is free from any legally binding conditions, but it was the testator's desire "that some judicious means shall be employed by the Managers to further advise students on the subjects of diet and reading."

WISTAR MORRIS MEMORIAL FUND

Founded in 1892 by gift of \$5,000 in bonds by Mary Morris, widow of Wistar Morris, as a memorial to him. There are no restrictions. The income is used for general college purposes. Present book value, \$5,144.24.

ISRAEL FRANKLIN WHITALL FUND

Founded in 1896 by net legacy of \$9,667.83 from Israel Franklin Whitall. Present book value, \$10,781.94. The income only is used for the payment of professors or teachers.

JACOB P. JONES ENDOWMENT FUND

Founded in 1897 by residuary legacy of Jacob P. Jones. This amounted when received to par value of \$279,021.60; book value, \$332,301.60, and sundry real estate. The real estate has all been sold, netting \$847,709.92. Present book value, \$1,301,375.34. The income only is to be used for general college purposes, and out of said income there shall be admitted a portion at least of the students either free of charge or at reduced rates. In accordance with this provision, about \$7,500 per annum is used for scholarships, and the balance of income for general college purposes. Jacob P. Jones' will contains the following: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

JOHN FARNUM BROWN FUND FOR THE STUDY OF THE BIBLE, BIBLICAL HISTORY AND LITERATURE, PHILOSOPHY, AND KINDRED SUBJECTS

Founded in 1900 by the late T. Wistar Brown as a memorial to his son, John Farnum Brown, '93. The original gift was in cash and securities of a par value of \$43,000, shortly afterwards increased by further gifts of \$15,000. The founder made further gifts of cash and securities until 1915, the total being \$19,381 cash and \$48,500 par of securities with book value of \$41,490. His total gifts therefore had a book value of \$234,970.81. Of this, \$5,000 donated in 1910 is for endowment of prizes in Biblical History and in Philosophy. A portion of the income was capitalized each year to keep intact the full value of the fund until 1940 when this fund was included in the Consolidation of funds. Present book value, \$275,899.76. The income only is to be used for the purpose of making provision for the regular study of the Bible and Biblical History and Literature, and as way opens for religious teaching. In 1910, the scope and title of the Fund were enlarged to include "and Philosophy and Kindred Subjects." Income up to \$200 may be used for prizes in Biblical Literature and Philosophy.

CLEMENTINE COPE ENDOWMENT FUND

Founded in 1904 by bequest of \$25,000 from Clementine Cope. There are no restrictions. The income is used for general college purposes. Present book value, \$21,493.67.

JOSEPH E. GILLINGHAM FUND

Founded in 1907 by bequest of \$50,000 from Joseph E. Gillingham. The testator said, "I request, but I do not direct, that part of the income of this legacy may be used for free scholarships for meritorious students." In accordance with this request, \$800 was until recently appropriated annually from the income for scholarships, the balance being used for general college purposes. Present book value, \$42,394.72.

ELIZABETH H. FARNUM FUND

Founded in 1891. The original principal of this fund, amounting to \$10,000, was held by the Provident Trust Co. of Philadelphia under a deed of trust created by Elizabeth H. Farnum of Philadelphia. The income was first paid to a life tenant until 1914, when income first accrued to the College "for the payment of the salaries of teachers and professors by the said College employed." Under date of Ninth Month 18, 1944, upon petition of the Trustee, concurred in by the College, the Court of Common Pleas awarded the principal to the Corporation of Haverford College "to be administered by it for the purposes set forth in the deed of trust in accordance with the non-profit corporation law."

JAMES R. MAGEE FUND

Founded in 1915 by bequest of \$10,000 from James R. Magee, '59, and added to in 1925, 1926, 1928, 1929, 1930, 1931, 1932, 1936, 1937, 1940, and 1944 by additional payments of \$29,182.84, \$1,694.84, \$499.31, \$499.68, \$488.85, \$207.33, \$400, \$250, \$100, \$449.89, \$175.00, 197.99 (1947-48) and \$7.40 (1948-49), under his legacy. Present book value, \$45,035.96. There are no restrictions except that the income only is to be used. This is applied to general college purposes.

ALBERT K. SMILEY FUND

Founded in 1915 by gift of \$1,000 from Daniel Smiley, '78, as a memorial to his brother, Albert K. Smiley, '49, and added to in 1924 and 1926. Present book value, \$1,500.00. There are no restrictions except that preference was expressed that the income only should be used. This is applied to general college purposes.

THE HINCHMAN ASTRONOMICAL FUND

Founded in 1917 by bequest of \$10,000 par value securities from Charles S. Hinchman. Increased in 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, and 1936 by donations of \$28,926.95 from a friend of the College. Present book value, \$39,515.48. The income only to be used "to increase the salary of the astronomical professorship so as to provide a suitable instructor in the ennobling study of the heavens."

WALTER D. AND EDITH M. L. SCULL FUND

Founded in 1918 by bequest of Walter D. Scull, whose death followed shortly after the death of his sister, Edith M. L. Scull. Each left his or her estate to the other, unless predeceased; in this latter case both American estates were left to Haverford College. Both were children of Gideon D. Scull, '43, and resided in England. Income accumulated before the receipt of the fund by the College amounted to \$16,887.66, of which \$15,078.51 was added to the

principal of the fund. Present book value, \$174,560.31. The fund was created to establish a professorship of modern English constitutional history, and the chair has been designated as the Walter D. and Edith M. L. Scull Professorship of History.

ALBIN GARRETT MEMORIAL FUND

Founded in 1919 by legacy of \$25,000 from Mary Hickman Garrett, in memory of her late husband, Albin Garret, '64. Present book value, \$26,771.00. There are no restrictions. The income is used for general college purposes.

ARNOLD CHASE SCATTERGOOD MEMORIAL FUND

Founded in 1919 by gift of \$30,000 in securities from Maria Chase Scattergood in memory of her son, Arnold Chase Scattergood, of the Class of 1919, who died in his Junior year. The income only is to be used toward the payment of professors' salaries. Present book value, \$24,381.59.

FRANCIS B. GUMMERE MEMORIAL FUND

Founded in 1920. This fund was started by a gift of \$25,000 from the late Miss Emily H. Bourne, of New York, conditional upon the raising of \$100,000 additional for an endowment of the Chair of English Literature in memory of her friend, Professor Francis Barton Gummere. A committee of alumni, consisting of J. Stoddell Stokes, '89, chairman; E. R. Tatnall, '07, treasurer; Hans Froelicher, '12, secretary; Charles J. Rhoads, '93; Alfred M. Collins, '97; Winthrop Sargent, Jr., '08, and Parker S. Williams, '94, working with President Comfort, organized a comprehensive campaign among the alumni and friends of the College to raise \$375,000 for this purpose and for increase of professors' salaries; the first \$100,000 of unspecified gifts was used to complete the Francis B. Gummere Memorial Fund to at least \$125,000, and the balance comprised the Isaac Sharpless Memorial Fund. Total, book value, \$125,569.51.

ISAAC SHARPLESS MEMORIAL FUND

Founded in 1920. The alumni of the College conducted during 1920 a campaign for \$375,000 additional endowment for the College to make possible additional salaries to the professors. Appeal was made to found two new funds, the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund. The funds received, except where otherwise specified, were first applied to the completion of the former up to \$125,000 (see above). Specified gifts and donations thereafter received, were then applied to the Isaac Sharpless Memorial Fund. The income only is to be used for salaries of professors. Total book value, \$218,728.43.

GENERAL EDUCATION BOARD FUND

The General Education Board of New York appropriated \$125,000 in 1920 to the campaign for increase of endowment when the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund, totaling \$375,000, were raised. Interest at five per cent was paid on the full sum for three years, and the \$125,000 in full payment was completed in 1926-1927. Total book value, \$126,076.83.

HAVERFORD IMPROVEMENT FUND AND CONSOLIDATED CAMPUS HOUSES ACCOUNT

Founded in 1922 to hold the Corporation's undivided share in College Lane land and eight houses. This property was turned over to the Corporation free of debt on Third Month 17, 1922, and with same the then debt of the Corporation amounting to \$155,942.15 was liquidated. The fund started with an

undivided interest of \$19,000. There was added in 1922, \$9,000; and in 1925, \$2,000. In 1926, \$5,000 of this fund was sold and the proceeds were appropriated for the alterations to Roberts Hall. The balance of this fund, \$25,000, was also used in 1927 for the same purpose. The income was used for general college purposes.

The College Lane land was purchased in 1886 for the benefit of the College by David Scull, Justus C. Strawbridge, Richard Wood and Francis Stokes, Managers of the College and now all deceased. With contributions raised by them and by mortgages on which they went on the bonds, funds were raised to build six dwelling houses, and two houses were built by the Corporation itself. From the income of the houses the debt against the properties was gradually reduced until it was entirely liquidated in 1919. The net income from 1919 until 1922, when the property was turned over to the Corporation, was applied toward the reduction of the Corporation's debt.

As of Ninth Month 1, 1944, all of these eight College Lane houses, together with seven houses which had been bought for the College and formed a part of the College debt, and nine other Campus houses which were owned free of debt, were consolidated at a combined valuation of \$281,331.70 into a new Campus Houses Account held by Consolidated Investment Account. There have been additional investments in other College houses from time to time and the present book value is \$610,613.91. Amortization of 1½% is to be applied to the annual reduction of the investment.

WILLIAM PENN FOUNDATION

Started in 1926 toward a fund of \$120,000 to establish a chair or lectureship in Political Science and International Relations. This fund forms a part of the Centenary program to raise \$1,000,000. This foundation is to be devoted, at the discretion of the Managers, to providing adequate undergraduate instruction in the theory and practice of our own and other governments, in the history of past attempts to secure international agreements and in the methods by which good international understanding may be promoted and maintained. Book value to date, \$102,067.43.

WALTER CARROLL BRINTON MEMORIAL FUND

Founded in 1920 by gift of \$5,000 by the family of Walter Carroll Brinton, Class of 1915, who died in France Twelfth Month 8, 1918, while engaged in Friends' Reconstruction Work. The fund sustained the Walter Carroll Brinton Scholarship until 1926-1927. It was then increased \$6,000 by further gifts of the founders, and at their request the purpose was changed from a scholarship fund to form a separately named fund of the William Penn Foundation, with its income to be used for the same objects. Present book value, \$14,125.79.

CORPORATION FUND

Founded in 1928 by setting aside \$70,000 of proceeds from sale of 5.811 acres of land on the southern boundary and at the southeastern corner of the College farm. In 1937, the fund was increased \$8,810, being proceeds of the sale of 1.762 acres of land to the Philadelphia Skating Club and Humane Society for their new ice skating rink. In 1951 the fund was increased by \$4,994.50, being proceeds of the sale of .284 acres of land to Philadelphia Electric Co. In 1953-54 the cost of renovation of Philips wing in the Library was taken from this fund (\$60,175.56). Present book value, \$25,128.94. The fund is invested and the income used for general college purposes, until otherwise directed by the Managers.

ELIZABETH J. SHORTRIDGE FUND

Founded 12 Month 22, 1930, by bequest from Elizabeth J. Shortridge, without restrictions. Until otherwise directed by the Managers, the income only is used for general purposes. Present book value, \$10,000.00.

HOWARD COMFORT MEMORIAL FUND

Founded in 1934 by gift of \$1,000 from President William Wistar Comfort in memory of his father, Howard Comfort, Class of 1870, who was a Manager from 1880 until his death in 1912, and Secretary of the Board of Managers from 1884 until 1908.

The fund was added to by further gifts from the same donor of \$1,000 in 1935, \$1,000 in 1936, \$2,000 in 1937 and \$500 in 1949. The income only is to be used for general purposes. Present book value \$5,527.31.

ELLEN W. LONGSTRETH FUND

This fund was established in 1935 by a bequest of \$20,000 and her residuary estate from Ellen W. Longstreth, a Friend, belonging to Haverford Meeting and living in Bryn Mawr. The principal and income are both unrestricted. This bequest and residue of \$84,416.28, together with further realization on residuary assets and an additional amount received upon the death of a life tenant of a trust, made a total of \$117,520.19. A part of this fund was used for the 1953-56 Building Program. Present book value is \$67,520.19.

ALBERT L. BAILY FUND

Founded in 1936 by an unrestricted bequest of \$5,000 from Albert L. Baily, '78. The income is used for general purposes. Present book value, \$5,000.00.

ELIZABETH B. WISTAR WARNER FUND

Founded First Month 16, 1937, by unrestricted bequest of \$4,950 from Elizabeth B. Wistar Warner, of Germantown, widow of George M. Warner, '73. The income is used for general purposes. Present book value \$4,950.00.

T. ALLEN HILLES BEQUEST

Founded First Month 19, 1937, by receipt of the proceeds of a trust fund created in 1935 by T. Allen Hilles, class of 1870, formerly of Wilmington, Delaware, recently of Glen Mills, Pa., who died 11th Month 15, 1935. The amount received in stocks and cash was \$285,000. Proceeds of mortgages of \$7,460.94 in 1938, and final cash from executor in 1939 of \$1,603.37 brought the gross total to \$294,064.31. From this was deducted in 1939 the final settlement of taxes and fees totalling \$13,300, thus making the final net bequest \$280,764.31. Accumulated income of \$12,489.77 was also received on First Month 19, 1937. In the trust created by the donor in 1935 he provided: "The gift to Haverford College shall constitute a fund to be known as 'The Hilles Bequest,' and the income shall be used for repair, upkeep and improvement of the building which I have given to Haverford College known as the Hilles Laboratory of Applied Science of Haverford College. My purpose in making this gift is primarily to relieve the Corporation of Haverford College from any additional expense on account of the erection of the building which I have given

them, and the accompanying expansion of its educational activities, but whenever and if the Board of Managers or other governing body of the College shall determine it to be for the best interest of the College to devote the whole or any part of the income of the fund to uses other than those above specified such income may be applied to such uses and in such manner as the Board of Managers or other governing body may in its absolute discretion determine." Present book value, \$280,764.31.

LEONARD L. GREIF, JR., AND ROGER L. GREIF FUND

Founded Ninth Month 29, 1937, by gift of \$1,000 from Leonard L. Greif, '34, and Roger L. Greif, '37, of Baltimore. The gift was unrestricted, but the Managers have set aside this fund as endowment for general purposes, the income only to be used, until otherwise determined by them. Further gifts of \$1,000 from each of the above donors were made in 1947-1948. During 1949-1950 an additional gift of \$1,000.00 was received from Leonard L. Greif, Jr. Further gift was made in 1952-1953 of \$1,000.00 by Leonard L. Greif, Jr. Present book value, \$7,000.00.

EDWARD M. WISTAR FUND

Founded First Month 9, 1938, by gift of \$2,500 from Edward M. Wistar, '72, for endowment, the income only to be used for general purposes. Present book value, \$2,500.00.

MORRIS E. LEEDS FUND

Founded Sixth Month 26, 1941, by a gift of shares of Leeds & Northrup stock, this fund was added to by further gifts of that company's stock during the lifetime of Morris Leeds. Upon his death he bequeathed to the college three-quarters of his entire residuary estate which bequest like the gifts made in his life was entirely without restrictions either as to principal or income.

The fund was ordered by the Managers until otherwise directed to be included among the funds for general purposes. After an appropriation for the 1953-56 Building Program, it has a present book value of \$1,369,519.75.

J. HENRY SCATTERGOOD FUND

Founded Tenth Month, 1941, by donations totaling \$1,660, made by members of the Board of Managers in recognition of the services for 25 years of J. Henry Scattergood, '96, as Treasurer of the Corporation of Haverford College. A further gift of \$340 was made in 1943-44, \$200.00 in 1949-50, \$1,000 in 1950-51 (through 1949 campaign) \$1,000 in 1951-52 (through 1949 campaign), \$1,000 in 1952-53 (through 1949 campaign), and \$6,800.00 in 1953-54 (through 1949 campaign). Present book value, \$12,000.00.

The income of this fund is to be used in the field of International Relations and to be at the disposal of the President of the College and the William Penn Professor holding the Chair in Political Science and International Relations. If the income in any year is not used for the special purposes as stated, in the discretion of the President, it may be used for general purposes. It is further provided that after Tenth Month 1, 1951 the use of the fund for other purposes, both as to principal and income, shall be subject to the direction of the Board of Managers of Haverford College.

PARKER S. WILLIAMS FUND

Founded Tenth Month 1, 1947, by unrestricted bequest of \$100,000 under the will of Parker S. Williams, Class of 1894, of Villanova, Pa., who died in 1942. The actual amount received from the executors was \$103,993.26, due to the increased value of certain investments, which were held, instead of being converted, under an agreement with the College. Income was paid to the College from time to time until the receipt of the bequest.

GILBERT C. FRY FUND

Founded Fourth Month 2, 1948, by an unrestricted gift of \$1,000 U. S. Treasury Bond from Gilbert C. Fry, of Germantown, Philadelphia, Class of 1923, in remembrance of his 25th anniversary of graduation. A new fund was set up and until otherwise ordered by the Managers, the income only will be used for general purposes. Further gift of \$500.00 was made in 1949-50, \$1,000 was made in 1950-51 (through 1949 campaign), \$1,000 1951-52, and \$1,500 in 1952-53. Present book value \$5,000.00.

DANIEL B. BOYER FUND

Founded Third Month 3, 1948, with an initial gift of \$2,500 in stock from Daniel B. Boyer, Boyertown, Pa., Class of 1911. The donor's letter states: "It is my desire that the income from the stock be allocated for faculty use. If present reduced College income is not sufficient to cover current faculty needs, the Board of Managers should not hesitate to sell the shares and apply the proceeds for that purpose." A new fund was set up, and until otherwise ordered by the Managers, the income only will be used for faculty salaries.

MARRIOTT C. MORRIS FUND

Founded Ninth Month 1, 1948, by unrestricted bequest of \$10,000 from Marriott C. Morris, Class of 1885, of Germantown.

The fund is classified among unrestricted funds for General Purposes, and is included in Consolidated Investment Account. Book value, \$10,000.

1949 CAMPAIGN SALARY FUND

Founded Sept. 1, 1950 by a transfer of \$107,800.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to augment faculty salaries and for increasing, where necessary, the teaching staff to make possible the desired ratio between faculty and students.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expanded at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$189,578.65.

THE RUFUS M. JONES FUND FOR ADVANCEMENT OF TEACHING

Founded Sept. 1, 1950 by a transfer of \$235,000.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to stimulate professional growth, encourage desirable research, make possible short-term absences for study or to render special service, and to raise professors' salaries.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$374,639.10.

WILLIAM PYLE PHILIPS FUND

Founded on the death of William Pyle Philips, class of 1902, of New York City, N. Y. on December 18, 1950 by the bequest of his entire residuary estate as an endowment fund in perpetuity, the principal is to be invested in such securities as the Board of Managers shall deem advisable "but at least $\frac{1}{2}$ thereof to be invested in diversified common stocks."

The income is "to be applied from time to time to such purposes as said Board of Managers in their discretion shall deem advisable, provided, however, that approximately one-half ($\frac{1}{2}$) of such income be applied to one or more of the following purposes:

"(a) Purchase for the Treasure Room of the College Library of rare books which the College would not otherwise buy and comparable with the books mentioned in *Article Third* hereof;

"(b) Bringing to the College distinguished scientists or statesmen for a lecture or series of lectures, for courses of instruction, for seminars, for research or for other academic purposes; and

"(c) Subscription to important learned periodicals, domestic and foreign, of the various humanities and sciences, purchases of back numbers of such periodicals and binding of the same for permanent preservation in the College Library." Present book value, \$2,285,990.55.

WILLIAM B. BELL FUND

Founded in Ninth Month 1951 by partial distribution of \$19,444.44 on account of an unrestricted bequest to the College of William B. Bell, Class of 1900, of New York, and in 1953-54 a final distribution of \$14,436.47.

The fund is to be used for General Purposes and is included in Consolidated Investments Account. Present book value is \$36,178.02.

DR. THOMAS WISTAR FUND

Founded in 1952, upon the termination of a Trust by the bequest of the residuary estate of Dr. Thomas Wistar, class of 1858, the funds are to be kept invested and the net income used for such purposes either general or special as the Managers of said College may direct. Present book value is \$25,068.15.

THE CHARLES McCaul FUND

Founded in 1953 by a bequest of 1/8th of the residuary estate of Mary N. Weatherly. The fund is to be known as The Charles McCaul Fund, in memory of her step-father. The income only shall be spent.

The use of the fund is unrestricted but it is the hope of the Testatrix that some portion of the income may be used to provide one or more scholarships, and that the rest of the income may be used to provide *sound and conservative instruction* in the Social Sciences.

It is my preference that such scholarships be awarded to students who show especial interest in the field of religion and the Social Sciences, but I do not specifically limit the use of the Fund, having confidence in Haverford College to teach high ideals." The present book value of this Fund is \$37,187.20.

ISAAC & LYDIA COPE SHARPLESS FUND

Founded in 1953 by bequest of \$5,000.00 from Lydia Cope Sharpless, who died Sept. 23, 1952, "in memory of my husband, Isaac Sharpless." The fund is without restriction, and has a present book value of \$5,000.00.

CLASS OF 1937 FUND

Founded Fifth Month 16, 1955 by a gift of \$4,500 from Margaret A. Lester and John A. Lester '96, in appreciation of the benefits rendered to their son, John A. Lester, Jr. '37.

The fund is unrestricted and has a present book value of \$4,500.

J. HORACE COOK FUND

"Founded in 1955 by a bequest under the will of J. Horace Cook, Class of 1881, who died March 25, 1939, this bequest became effective on the death of Mary Fuller Cook, his widow. This Fund is "to be kept . . . and the income to be used for the needs of the College as it shall see fit, but preferably for a scholarship one to be awarded each year so there will be a student in each class receiving his tuition from this fund." "Ten per cent of the net income for each and every year shall be added to principal of this Fund." Present book value, \$124,844.49.

THE FORD FOUNDATION ENDOWMENT FUND

The Ford Foundation made grants to the college on July 1, 1956 and June 27, 1957, for an Endowment Fund totaling \$345,000.

In accordance with the terms of the gift "Until July 1, 1966, the principal of the grant shall be held by the grantee institution only as endowment, and the income from such grant shall be used only to increase faculty salaries. After July 1, 1966, principal and income of the grant may be used for any educational purposes of the institution."

THE FORD FOUNDATION ACCOMPLISHMENT FUND

The Ford Foundation also made on July 1, 1956 and June 27, 1957, two payments for an accomplishment grant in the amount of \$214,000. This grant was made in recognition of the fact the college had, with certain other institutions to whom similar grants were made, taken the lead in their regions in improving the status and compensation of American College Teachers,

"The purpose of the grant shall be to advance the academic program of the grantee institution either by increases in faculty salaries or by meeting other pressing academic needs. The grant may be spent in whole or in part, from time to time, as the grantee institution may determine."

THOMAS HARVEY HAINES AND HELEN HAGUE HAINES FUND

Founded in 1956 by a bequest of one-third of the residuary estate of Helen Hague Haines, this fund was given in memory of Thomas Harvey Haines, class of 1896. The proceeds are to be used "to promote understanding among men by research, training and teaching in the field of human relations." Present book value is \$12,426.18.

EMILY BISHOP HARVEY FUND

Founded in 1958 by a bequest of \$10,000 from Emily Bishop Harvey of Radnor, Penna., patron and friend of the college, who died November 12, 1957, this fund is without restrictions and is to be used for the general purposes of the college. Book value is \$10,000.

CLASS OF 1933 TWENTY-FIFTH ANNIVERSARY FUND

Founded in 1958 by initial gift of \$6,477.50 from the Class at its 25th Reunion, the income is to be used for general college purposes at the discretion of the Board of Managers. However, the Board may use the principal, if conditions unforeseen at the time of establishment of the fund made it advisable. Present book value \$7,202.50.

FREDERIC H. STRAWBRIDGE FUND

This gift was left to the college by Frederic H. Strawbridge, Class of 1887, upon his death in 1958. The fund represents the culmination of a long series of gifts made during his fifty-one years as a member of the Board of Managers. It is unrestricted, and has a present book value of \$10,000.

JOHN E. HUME FUND

Founded in 1959, by a bequest of one-third of the residuary estate of John E. Hume, Class of 1897, the fund is unrestricted and is to be used for General Purposes. Present book value \$35,000.

FUND FOR GRADUATE SCHOOL

MOSES BROWN FUND

A trust founded by T. Wistar Brown, in 1906, as a memorial to his father, Moses Brown. Transferred to the College in 1916 after his death, having at that time a par value of \$372,821.91 and book value of \$318,823.56. Present book value, \$387,107.81. The fund was created to establish a graduate course in religious study in harmony with and supplementary to the teaching and study provided for by the John Farnum Brown Fund. The income only is to be used; at least ten per cent of the total income must be capitalized each year. The unused income, if any, is likewise capitalized at the close of each fiscal year. The graduate school supported by the Moses Brown Fund was designated "The Thomas Wistar Brown Graduate School." In 1927 the former separate school was discontinued and eight graduate scholarships were created.

In 1937-1938, arrangements were first made for cooperation in courses with Pendel Hill, a school for religious education under the care of Friends, located at Wallingford, Pa.

FUNDS FOR INFIRMARY

INFIRMARY ENDOWMENT FUND

Founded in 1911 from subscriptions totaling \$9,072.55, raised among alumni and friends of the College. The income is used toward the expenses of the Morris Infirmary. Present book value, \$9,653.44.

JOHN W. PINKHAM FUND

Founded in 1911 by legacy of \$5,000 from Dr. John W. Pinkham, '60, being transmitted by gift from his widow, Cornelia F. Pinkham. There are no binding conditions, but as she expressed an interest in the Morris Infirmary, then building, the Board of Managers directed that the income of this fund should be used in the support and maintenance of the Infirmary. Present book value, \$5,059.50.

FUND FOR HAVERFORD UNION HAVERFORD UNION FUND

Founded in 1920 by gift from the former Haverford Union Members of \$1,000 par value of bond at book value of \$800 and \$678.59 cash, and all the personal property in the Union from the Haverford College Union. The College assumed the responsibility for the care of the building First Month 16, 1920. The income is used toward the maintenance of the Union building. Present book value, \$1,878.82.

FUNDS FOR SCHOLARSHIPS THOMAS P. COPE FUND

Founded in 1842 by gift of sixty shares of Lehigh Coal and Navigation Co. stock, par value \$3,000, from Thomas P. Cope. Present book value, \$5,257.82. The income only is to be used "for the education of young men to qualify them to become teachers, but who are not of ability to pay their own schooling." This fund sustains the Thomas P. Cope Scholarships.

EDWARD YARNALL FUND

Founded in 1860 by bequest of \$5,000 from Edward Yarnall. Present book value, \$6,069.23. The income only is to be used for "the support of free scholarships." The fund sustains the Edward Yarnall Scholarships.

ISAIAH V. WILLIAMSON FUND

Founded in 1876 and increased in 1883 by gifts of sundry ground rents from Isaiah V. Williamson. Present book value, \$19,817.40. The income only is to be used for free scholarships. The fund sustains the Isaiah V. Williamson Scholarships.

RICHARD T. JONES SCHOLARSHIP FUND

Founded in 1885 by bequest of \$5,000 from Jacob P. Jones as a memorial to his late son, Richard T. Jones, '63. The income only to be used to sustain the "Richard T. Jones Scholarship." Present book value, \$5,056.25.

MARY M. JOHNSON SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Mary M. Johnson. Accrued interest before payment to the College increased the fund by \$3,062.95. The bequest was to establish a "perpetual scholarship." The fund sustains the Mary M. Johnson Scholarships. Present book value, \$7,013.61.

SARAH MARSHALL SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Sarah Marshall. Accrued interest before payment to the College increased the fund by \$2,589.49. The bequest was to establish a "perpetual scholarship." The fund sustains the Sarah Marshall Scholarships. Present book value, \$7,919.76.

CLEMENTINE COPE FELLOWSHIP FUND

Founded in 1899 by gift of \$25,000 from Clementine Cope. The gift was to establish the "Clementine Cope Fellowship Fund to assist worthy and promising graduates of Haverford College in continuing their course of study at Haverford or at some other institution of learning in this country or abroad." The selection of the Fellows is made by the Board of Managers upon nomination by the Faculty. Present book value, \$22,845.86.

ISAAC THORNE JOHNSON SCHOLARSHIP FUND

Founded in 1916 by gift of \$5,000 from Isaac Thorne Johnson, '81. Present book value, \$10,083.68. The gift was to establish "The Isaac Thorne Johnson Scholarship to aid and assist worthy young men of Wilmington Yearly Meeting or of the Central West to enjoy the privileges of Haverford College." Unused income is added to the principal of the fund.

CASPAR WISTAR MEMORIAL SCHOLARSHIP FUND

Founded in 1920 by gift of Edward M. and Margaret C. Wistar of \$5,000 par value in bonds in memory of their son, Casper Wistar, of the Class of 1902, who died in Guatemala in 1917 while engaged in mission service in that country. The income only is to be used for scholarships, primarily for sons of parents engaged in Christian service, including secretaries of Young Men's Christian Associations, or students desiring preparation for similar service in America or other countries. Present book value, \$6,951.21.

J. KENNEDY MOORHOUSE SCHOLARSHIP FUND

Founded in 1926 by gifts totaling \$3,000, with \$1,000 added in 1926, and \$1,000 in 1928 and \$1,000 in 1929 from the Class of 1900 in memory of their classmate, J. Kennedy Moorhouse. The scholarship provided by this fund is "to be awarded, whenever a vacancy shall occur, to the boy ready to enter the Freshman class, who in the judgment of the President of the College appears best fitted to uphold at Haverford the standard of character and conduct typified by J. Kennedy Moorhouse, 1900, as known to his classmates: A man, modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living." Present book value, \$5,155.85.

LOUIS JAQUETTE PALMER SCHOLARSHIP FUND

Founded in 1928 by gift of \$5,000 from Triangle Society, as follows:

"The Triangle Society of Haverford College herewith presents to the Corporation of Haverford College, a fund of Five Thousand Dollars (\$5,000) to be hereafter known and designated as the 'Louis Jaquette Palmer Scholarship Fund';

"This fund represents contributions from the members of the Triangle Society of Haverford College who have been thus inspired to perpetuate the memory of their fellow member, Louis Jaquette Palmer, of the Class of 1894, one of the founders of the Triangle Society, whom they admired for his cooperative spirit and constructive interest in student and community welfare. The fund is placed with the Corporation of Haverford College with the understanding:

"That such student shall be selected from a list of those eligible for entrance to Haverford College, who shall have combined in his qualifications the fulfillment of such conditions as apply to applicants for the Rhodes Scholarships under the terms of its creation, and furthermore that the student so selected and entered in Haverford College may continue to receive said

scholarship fund throughout his course at College, subject to the approval of the Committee, otherwise preference shall be given to applications for the Freshman Class;

"That the selection of said student and the determination of the qualities and conditions hereinbefore mentioned shall be subject to the decision and control of a committee of three (3), which committee shall be composed of two (2) members of the Triangle Society and the President of Haverford College, the said members of the Triangle Society to select and recommend the applicants and the committee as a whole to determine their qualifications and eligibility.

"Finally, in the event that no student is selected by the Triangle Society or that a vacancy occurs, the income from said funds and any additions shall accumulate as provided under the customary rules and regulations of the Corporation of Havorford College."

In 1950 there was added to this fund the proceeds of ten life insurance policies formerly held in the Triangle Society Endowment Fund amounting to \$2,954.18 plus the balance of \$500 in that Fund and four additional contributions of \$543.01, \$222.00, \$1,000, \$330 and further contributions by members of the Society, making the present book value of this Fund \$12,807.19.

PAUL W. NEWHALL MEMORIAL SCHOLARSHIP FUND

Established in 1931 by bequest of \$5,045.60 from Mary Newhall in memory of her father, Paul W. Newhall, a Manager, 1844-48, for the establishment of a scholarship fund. The income only to be used for free scholarship purposes. Present book value, \$5,045.60.

ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIP FUND

Founded in 1935 by gift of \$750. \$2,000 each year, 1936 to 1940, and in 1942; \$2,500 in 1941; \$1,000 in 1943; \$1,000 in 1944; \$2,000 in 1945; \$2,000 in 1947-1948, \$1,000 in 1949-1950, by Harry M. Zuckert, New York, in memory of his son, Robert Martin Zuckert, of the Class of 1936, who was killed in an accident in June, 1935. The income is to be used for scholarship and the donor said, "I should prefer a boy who is a native of New York or Connecticut and who now resides in one of those States." Present book value, \$22,250.00.

SAMUEL E. HILLES ENDOWMENT CREATED BY MINA COLBURN HILLES

Founded in 1935 by gift of \$5,000 from Mrs. Mina Colburn Hilles, of Orlando, Fla., in memory of her husband, Samuel E. Hilles, Class of 1874, formerly of Cincinnati, who died in 1931. This fund was created under a trust deed with Central Title and Trust Co., Orlando, Fla., to whom annual reports are to be made. The income only is to be used for scholarships for worthy students who are unable to finance their expenses at Haverford College. Present book value, \$5,017.31.

CLASS OF 1913 SCHOLARSHIP FUND

Founded Fourth Month 15, 1937, by gift of \$3,000 from Class of 1913 for the endowment of scholarship aid. The income only is to be used for scholarship aid, to be awarded annually to a worthy student of any undergraduate class. Preference is to be given to sons of members of the Class of 1913 who may apply and who meet the usual requireemnts of the College. Present book value, \$3,000.00.

THE AUGUSTUS TABER MURRAY RESEARCH SCHOLARSHIP FUND

Founded Fifth Month 31, 1939, by gift from two anonymous friends of Dr. Augustus Taber Murray, '85, by gifts of \$20,000 par value of securities subject to annuity during their lives, and with permission to use principal for the annuity payments, if necessary.

Upon the deaths of the two annuitants, the remaining principal shall be held in a fund, the "Income to be used for scholarships in recognition of the scholarly attainments of Augustus Taber Murray, a distinguished Alumnus of Haverford College, of the Class of 1885, and for many years a professor of Leland Stanford University, the fund to be known as 'The Augustus Taber Murray Research Scholarship.' Then scholarships in English literature or philology, the classics, German literature or philology (in order of preference) shall be awarded upon such terms and conditions as the College may from time to time establish to students who have received the bachelor's degree at Haverford College, and shall be awarded for the purpose of study in other institutions toward the degree of Doctor of Philosophy or such degree as may in the future correspond to that degree."

The amount of the Scholarship is to be \$900 a year whenever awarded, and only unmarried students are eligible to hold it. Present book value, \$24,907.42.

THE CLASS OF 1917 SCHOLARSHIP FUND

Founded Seventh Month 13, 1942, by initial gift of \$2,000.00 from the Class of 1917, John W. Spaeth, Jr., Treasurer, as a Twenty-fifth Anniversary Gift. A further gift of \$250.00 was made at the same time to cover the first two years of a scholarship of \$125.00 per year. Preference is to be given to a son of a member of the Class of 1917. The income only is to be used for a scholarship to the extent of \$150.00 per annum. This was increased to \$200.00 per annum in 1947-1948. Further contributions from the members of the Class of 1917 are to be applied in the following order:

(1)—To supplement the annual income from the principal sum of \$2,000.00, so that the annual scholarship stipend shall be \$150.00 (increased to \$200 in 1947-48, increased to \$300 in 1949-50, increased to \$500 in 1952-53), or as near that sum as may be;

(2)—To add to the principal sum any surplus of these annual contributions not needed to serve the purpose of (1). Since the scholarship stipend for the years 1942-1943 and 1943-1944 was already provided for by the additional \$250.00 already contributed by the Class of 1917, the annual contributions from the Class in these two years was added at once to the principal sum of \$2,000.00, thus serving the purpose of (2) above. Further contributions have been made annually to make their present book value \$11,179.00.

DANIEL B. SMITH FUND

Founded Tenth Month 6, 1943, by gift of \$2,500 from Anna Wharton Wood, of Waltham, Mass., who died in 1944. This was increased Fifth Month 24, 1945 by a bequest of \$2,500 made by Miss Esther Morton Smith, of Germantown, Philadelphia, who died Third Month 18, 1942, by a further bequest by Dorothea Atwater Smith of \$5,000 March 10, 1958.

This fund is established by the granddaughters of Daniel B. Smith "in loving memory of their grandfather and his intimate association with the early years of the College."

The income is to be used, in the discretion of the Faculty as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of their father, Benjamin R. Smith, if any such should apply. Present book value, \$10,000.00.

SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND

Founded Eleventh Month 1, 1943 by bequest of \$75,534.58 from Joseph T. Hilles 1888, in memory of his mother "Sarah Tatum Hilles."

The will directs that the income be used "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; they are to be awarded by the Managers upon "needy and deserving students," and to be known as "Sarah Tatum Hilles Memorial Scholarships."

It is estimated that twelve scholars can be thus provided for at present. Present book value \$75,534.58.

ELIHU GRANT MEMORIAL SCHOLARSHIP FUND

Established Second Month 2, 1944 by gift of \$200 from Mrs. Elihu Grant to supplement the simultaneous transfer of \$803.73 to this new fund from Donations Account, being the balance of Donations made by Dr. Grant during his lifetime to the Beth Shemesh account, and \$75.00 realized from the sale of some of his books. Mrs. Grant has made a further gift of \$1,000 in 1943-44 and \$2,000 in 1944-45. And, Grant Foundation, Inc., gave \$10,000, also in 1944-45. Mrs. Grant made a further gift of \$1,000 in 1945-46. In 1949-1950 in connection with the Campaign, the Grant Foundation made a further gift to the College of \$25,000, to be added to this fund. Present book value, \$40,275.01.

With the donor's approval, the terms of the fund are as follows:

"Founded in 1944 to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938, a member of the College faculty. The income from this fund is applied to scholarship assistance to students in the Humanities, primarily those specializing in the study of Biblical Literature and Oriental subjects, and is limited to those whose major subject has been approved by the College faculty. In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College." If conditions change, the Managers are given power to change the use of the fund. In making the additional grant in 1949-50, the Foundation stated that "the income from this present gift may be allocated as scholarship or fellowship awards by the proper authorities of the College to under graduate or graduate students without restriction as to courses of studies." Present book value, \$40,275.01.

CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP FUND

Founded Sixth Month 13, 1946 by a gift of \$8,000 from Madeleine Seabury Febiger, of Philadelphia, in memory of her husband, Christian Febiger, Class of 1900.

On Third Month 18, 1949 a bequest of \$9,050 was received from the executors of Mrs. Madeleine Seabury Febiger, who died September 27, 1947, and was added to this fund.

The income only is to be used in paying the tuition or other college expenses of worthy, needy students at Haverford College. Present book value, \$17,050.

JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP FUND

Founded 2nd Month 10, 1947 by gift of \$5,000.00 from Mrs. Mary E. B. Markley of Ann Arbor, Michigan, widow of Joseph L. Markley, A.B. '85, M.A. '86, who was Professor of Mathematics at University of Michigan. The gift was made "to be held as an endowment fund in memory of Joseph L. Markley of the Class of 1885. The income of which is to be granted each year, in the discretion of the faculty, as a scholarship to some student on the basis of character, scholarship and financial need."

JOSEPH C. AND ANNE N. BIRDSALL SCHOLARSHIP FUND

Founded 2nd Month 24, 1947 by initial gift of \$10,000 from Dr. Joseph C. Birdsall, Class of 1907, of Haverford, Pa., "for the establishment of a new fund to be known as "Joseph C. and Anne N. Birdsall Scholarship Fund, the income only to be granted each year, in the discretion of the faculty of Haverford College, as scholarship aid to some student or students of Haverford College who are preparing for medicine,—the selection to be upon the basis of character, scholarship and financial need." Further gifts 1947-48, \$5,000; 1948-49, \$5,000; 1949-50, \$5,000; 1956-57, \$5,000. Present book value, \$30,000.

DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP FUND

Founded by gifts made First Month 20 and Second Month 17, 1948, totalling \$3,000, by Mr. and Mrs. Daniel E. Davis, of Sewickley, Pa., to establish the Daniel E. Davis, Jr., Memorial Scholarship Fund, in memory of their son, ex Class of 1944, who was killed in aerial warfare in the Pacific.

The income from the fund is to be granted each year, in the discretion of the Faculty, as a scholarship to some student on the basis of character, scholarship and financial need.

JONATHAN M. STEERE SCHOLARSHIP FUND

Founded Twelfth Month 28, 1948 by gift of \$2,300 from Jonathan M. Steere, Class of 1890. Classified among the Scholarship Funds and included in Consolidated Investment Account.

The donor's provisions governing the use of the fund are as follows: "With this stock, or its proceeds, I wish to establish a fund for a scholarship primarily for a graduate of Moses Brown School, Providence, R. I., now under the care of New England Yearly Meeting of Friends. Should the scholarship not be awarded in any one year to a graduate of Moses Brown School, it may be awarded to someone else, preferably from New England, in the discretion of the College. If advisable, it may be given to more than one boy in any year. My preference is that it be awarded to a member of the Society of Friends, but I do not so restrict it. Should the time come when, for any reason, scholarships may not be needed or desirable, having full confidence in the Management of the College, I wish that both the principal and the income be used as the College in its sole discretion shall determine.

"I suggest that at the College it be known as the 'Moses Brown School Scholarship', and at the School as the 'Haverford Scholarship'." A further gift of \$4,985.00 was made in 1949-50 and \$2,715 in 1950-51. Upon his death on September 21, 1958, \$10,000 was added by bequest to the fund making the present book value \$20,000.00.

WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP FUND

Founded Tenth Month 1949 by gift of \$15,000 from Miss Mary Graham Tyler in memory of her father, William Graham Tyler, Class of 1858. Formerly of Philadelphia, William Graham Tyler took an active part in civic improvement in New Jersey and in Iowa, and was concerned with the advancement of Friends Education at both William Penn College and Haverford College.

The income from the fund is to be granted each year, in the discretion of the College, as scholarship aid to some student or students on the basis of character, scholarship, and financial need. Preference is to be given to students from Oskaloosa, Iowa, or William Penn College in that state.

1890 MEMORIAL SCHOLARSHIP FUND

Founded in March 1950 by a gift of \$2500 from Andrew L. Lewis of Worcester, Pennsylvania, in memory of his father, John F. T. Lewis, of Class of 1890, "and in recognition of his father's friendship with the members of his class."

The income from this fund is to be awarded as a scholarship by the College to a deserving student. Since in the beginning the income from this fund will not be large enough to furnish an entire scholarship, it may be used in conjunction with some other scholarship to insure aid of material size, increased by \$100 in 1951-52 and \$100 in 1952-53. Present book value, \$2,700.

1949 CAMPAIGN SCHOLARSHIP FUND

Founded Sept. 1, 1950 by a transfer of \$38,610.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds available for scholarships, in order to maintain the quality and increase the diversity of the student body and to carry on the tradition that personal merit rather than ability to pay is the primary entrance qualification.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$50,453.36.

MAX LEUCHTER SCHOLARSHIP FUND

The plan for this fund was evolved during the life of Max Leuchter, who died in 1949, and carried out upon his death by his wife Cecila P. Leuchter and his sons, Ben Z. Leuchter and Joel C. Leuchter. Self educated after completion of grade school, becoming editor and publisher of the Vineland Times Journal, Max Leuchter wished to benefit the College to which he sent his son, and which he had come to greatly admire.

The purpose of the donors in making this gift in 1950 of \$10,000.00 was to "create a scholarship which shall be given yearly to a student whose need can be demonstrated, whose academic performance meets the College requirements, and who, in addition, gives promise of making an outstanding contribution to the life of the College through his breadth of interest, his love of hard play and of hard work."

The scholarship shall be in the amount of \$300.00 in the beginning. It may be given to a new student each year or to one student through each of his four years. All income received above \$300.00 shall be capitalized each year.

"When the income from the fund has reached proportions such that an additional scholarship of \$300.00 can be awarded, and that at the same time at least \$300.00 can be returned to the fund, the additional award shall then be made."

"It is the further wish of the donors that, while their interests are primarily as stated above, should the Board of Managers of the College be faced with circumstances which cannot be foreseen now, the Board may, at its discretion, use the income from the fund for College purposes other than the scholarship purposes." The present book value is \$14,414.52.

A. CLEMENT WILD SCHOLARSHIP FUND

Founded in 1951 by a first gift of \$4,087.50 of Gertrude T. Wild in memory of her husband, A. Clement Wild, of the class of 1899. The income from the fund is to be used for a scholarship or scholarships, to be granted without restrictions in the discretion of the College.

In making the gift the donor, though reiterating the freedom from restrictions, expressed the feeling that as A. Clement Wild was born in England, becoming a naturalized American Citizen, a grant to an English Exchange Student or someone in a similar category would be appropriate. Increased by \$4,625.00 in 1951-52; \$4,300.00 in 1952-53; in 1953-54 \$4,100.00; in 1954-55 \$5,300.00; and in 1955-56 \$2,587.50. The present book value is \$25,000.

CAROLINE CHASE SCHOLARSHIP FUND

Founded December 10, 1951 by payment on a bequest of part of the residue of the estate of Caroline Chase, daughter of Thomas Chase, one time president of the College, of Providence, Rhode Island, whose Will provided:

"This gift is made as an expression of my father's enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature.

"It is my intention that the said share given to said Haverford College shall be used for any of the educational purposes of said College according to the discretion of the President of the time being."

Present book value of the fund is \$6,245.11.

ROY THURLBY GRIFFITH MEMORIAL FUND

Founded in 1953 by a legacy of \$5,000.00 from Grace H. Griffith, who died April 14, 1952, in memory of Roy Thurlby Griffith, class 1919. "The income therefrom to be used for a scholarship or scholarships for such individual or individuals as in the judgment of the Trustees of said College shall be deserving of the same. The Trustees of said College shall have full power and discretion to determine the number of scholarships, the amount of such scholarships, and the recipients of the same, but it is my desire that wherever possible preference shall be given to boys who have no father and who are in need of financial assistance." Present book value \$5,000.

CLASS OF 1904 SCHOLARSHIP FUND

Founded June 4th, 1954 in commemoration of its fiftieth anniversary by the Class of 1904 and the families of its deceased members, the Fund is to be used for scholarship purposes and has a present book value of \$6,000.

INAZO NITOBÉ SCHOLARSHIP FUND

"Founded in 11th Month 1955 by a bequest of \$10,000 under the will of Anna H. Chace of Providence, R.I. The fund became payable upon the death of her sister Elizabeth M. Chace.

"The income, or so much thereof as said College may deem best, (is) to be used and applied for the education at said Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship." Present book value, \$10,000.

THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND

Founded February 1956, by a gift of \$1,000 from The Summerfield Foundation, this fund is to be added to the Endowment of the College; the income is to be used for scholarship purposes. Present book value, \$4,000.

W. LACOSTE NEILSON SCHOLARSHIP FUND

This fund was established in June 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory.

The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts. The present value of this fund is \$11,925.

WALTER R. FARIES SCHOLARSHIP FUND

Founded in 1959 by a gift of securities from Walter R. Faries, Class of 1916, the fund is to be administered in accordance with an agreement with the donor.

Upon the death of certain annuitants "all income thereafter shall be used to provide partial or full scholarships for future students at Haverford with the understanding that leadership qualities rather than scholastic ability alone shall be considered as far as practicable in making such award. If changing circumstances in years to come shall, in the judgment of the Board of Managers of Haverford College, make the original purpose of this fund impracticable or undesirable, such Board shall have the power to use the income for other purposes of the College." Present book value \$57,950.

FUNDS FOR THE LIBRARY

ALUMNI LIBRARY FUND

Founded in 1863 by contributions from the alumni and other friends of the College. In 1909 the unexpended balance (about \$5,000) of a fund of \$10,000 raised in 1892, and known as the "New Library Fund," was merged into the Alumni Library Fund. Present book value, \$17,435.06. The income is used for binding and miscellaneous expenses of the Library.

MARY FARNUM BROWN LIBRARY FUND

Founded in 1892 by gift of \$20,000 from T. Wistar Brown, executor of the Estate of Mary Farnum Brown. Additions were made by T. Wistar Brown in 1894, \$10,000 for a lecture fund, and in 1913, \$20,000. In 1916, after T. Wistar Brown's death, there was added to this fund \$34,499.78 par value of securities, book value, \$30,149.78, being a trust which he had created for this purpose in 1908 and to which he had made additions in subsequent years. Present book value, \$68,223.55. The purpose of this fund (except \$10,000) is for the increase and extension of the Library. The income only is to be used for the purchase of books, and one-fifth of same is to be spent for books promoting the increase of Christian knowledge. The books purchased with the income of this fund are marked by a special book-plate. The income of \$10,000 of the fund is to provide for an annual course of lectures upon Biblical subjects designated "The Haverford Library Lectures." Unused income from the fund, if any, must be capitalized at the end of each fiscal year.

WILLIAM H. JENKS LIBRARY FUND

Founded in 1910 by gift of \$5,000 from Hannah M. Jenks, widow of William H. Jenks. The fund was first known as "Special Library Fund," but after the death of Hannah M. Jenks was changed, in 1916, to "William H. Jenks Library Fund." The purpose of this fund is that the income shall be used for the care of the collection of Friends' books made by William H. Jenks and given by his widow to Haverford College, and to make appropriate additions thereto. Any income not used for these purposes may be used toward the general needs of the Library. Present book value, \$5,000.00.

MARY WISTAR BROWN WILLIAMS LIBRARY FUND

Founded in 1914 by gift of \$20,000 from Parker S. Williams, '94, as a memorial to his late wife, Mary Wistar Brown Williams. The income only is to be used for the purchase of books for the Library, preferably books coming within the classes of history, poetry, art, and English and French literature. The books purchased with the income of this fund are marked by a special book-plate. Present book value, \$20,306.74.

ANNA YARNALL FUND

Founded in 1916 by residuary bequest of \$13,000 par value of securities with book value of \$7,110, and one-half interest in suburban real estate from Anna Yarnall. Additional amount under bequest was received in 1918. Present book value, \$173,078.14. The real estate was sold in 1923 and netted the College \$164,820.50. The bequest was made for the general use of the Library. The Testatrix says, "I do not wish to restrict the managers as to the particular application of this fund, but desire them to use the income arising from it as in their best judgment and discretion shall seem best, for the purchase of books and manuscripts, book cases, rebinding of books, and, if need be, the principal or portions thereof, or the income or portions thereof, for additions to the pres-

ent Library building, or the erection of new Library buildings. I direct that all books purchased with this fund shall be plainly marked 'Charles Yarnall Memorial' in memory of my father, Charles Yarnall."

F. B. GUMMERE LIBRARY FUND

Founded in 1920 by gift of \$635.41, raised among the students by the Students, Association of the College as a memorial to Professor Francis Barton Gummere. The income only is to be used to buy for the Haverford College Library books on the subjects that he taught or was interested in.

The student's Association voted to raise twenty-five dollars for a special shelf in the Library to be known as the "F. B. Gummere Memorial Shelf." This shelf, with its proper inscription, holds the books purchased by this fund. Present book value, \$635.47.

EDMUND MORRIS FERGUSSON, JR., CLASS OF 1920 MEMORIAL FUND

Founded in 1920 by memorial gift of \$1,000 from the family of Edmund Morris Fergusson, Jr., Class of 1920, who died at the College in his Senior year. The income only is to be used for the maintenance and increase of the Library's Department of English and American Literature. The books purchased with the income of this fund are marked by a special book-plate indicating its source. Present book value, \$1,002.34.

CLASS OF 1888 LIBRARY FUND

Founded Sixth Month 15, 1938, by gifts totaling \$5,250 from members and families of the Class of 1888, on the occasion of their fiftieth anniversary. The conditions of the gift are as follows:

- (1) A fund is to be established, to be known as "THE CLASS OF 1888 LIBRARY FUND."
- (2) The income only of this fund is to be used exclusively for the purchase of books for the Haverford College Library, except as noted below (in Clause 6).
- (3) The fund established now will be added to later by gift or bequest.
- (4) Members of the Class also expect to donate books to the Library, with the understanding that when such books are duplicates of books already in the Library, they may be exchanged for books needed, or sold, and the money so obtained used in the same way as the income of the fund.
- (5) All books purchased by the income of the fund (or obtained as in 4) are to be provided with a special book-plate to be furnished by the Class.
- (6) Income from the Class Fund or moneys obtained by sale of duplicate books may, when necessary, be used for binding or repair of books designated as belonging to the Class collection. Additional donations were made as follows: \$500 in 1939-40; \$100 in 1943-44; \$500 in 1944-45 and \$200 in 1945-46. Present book value, \$6,550.00.

CLASS OF 1918 LIBRARY FUND

Founded Third Month 24, 1938 by gift from the Class of 1918 in commemoration of their twentieth anniversary. The gift was \$1,753.52 of which \$500 was spent for a portrait of the late Rayner W. Kelsey, Professor of History, who died Tenth Month 29, 1934; and the balance of \$1,253.52 was used in establishing a new Library Fund, the income to be used for books. Present book value, \$1,253.52.

QUAKERIANA FUND

Founded 1st Month 8, 1947, by gift of \$600 from President Emeritus William Wistar Comfort '94, as explained in letter from him as follows: "In 1940 some Alumni gave me a sum of money to buy books for myself. This I have done, and now there remains \$600 which I wish to make over to the Corporation, the interest of which may provide books or manuscripts for the Quaker collections. As a compliment to the donors of the fund, I should like the enclosed bookplate to be inserted in such future purchases."

MOHONK FUND FOR THE RUFUS JONES COLLECTION OF MYSTICISM

Founded Third Month 21, 1949 by gifts totaling \$1,500 from members of the Albert K. Smiley family of Mohonk Lake, N. Y.

The gift was made "to make possible additions to the Rufus Jones Collection on Mysticism in the College Library," with the further provision that "it may be used at the discretion of Haverford College, if the purpose for which it is intended should no longer be applicable or desirable."

The fund is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$1,500.

RUFUS M. JONES BOOK FUND

Founded Seventh Month 11, 1949 from bequest of \$5,000 through a deed of Trust established by Rufus M. Jones during his life, "the income only to be used—for the purchase of books on Mysticism, to be added to the Collection of books on that subject," which he turned over to the College a few years before his death.

The fund is designated as the Rufus M. Jones Book Fund, is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$5,000.

1949 CAMPAIGN LIBRARY FUND

Founded Sept. 1, 1950 by a transfer of \$22,100. from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds with which to buy books, and thus maintain the excellence of the Library.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this Fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$36,681.37.

FUNDS FOR PENSIONS

PRESIDENT SHARPLESS FUND

Founded in 1907 by contributions from interested friends of the College, finally amounting to \$40,000. Present book value, \$41,237.08. The income is to be used for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

WILLIAM P. HENSZEY FUND

Founded in 1908 by gift of \$10,000 from William P. Henszey, donated in connection with the raising of the President Sharpless Fund, but kept as a separate fund. Increased in 1909 by legacy of \$25,000 from William P. Henszey. Present book value, \$36,758.66. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

JACOB P. JONES BENEFIT FUND

Founded in 1909 and increased in 1910 by proceeds of land sold for account of Jacob P. Jones legacy. Present book value, \$68,113.78. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

PLINY EARLE CHASE MEMORIAL FUND

Founded in 1909 by transfer to the College of a fund raised in 1887 in memory of Professor Pliny Earle Chase, and amounting to par value of \$4,173.04. The income of this fund is used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. This income is transferred annually to the Haverford College Pension Fund, for old style pensions, or, if not needed for pensions, is capitalized in said fund. Present book value, \$3,272.24.

HAVERFORD COLLEGE PENSION FUND

Founded in 1920 and added to since, being accumulations of income from the President Sharpless Fund, the William P. Henszey Fund, the Jacob P. Jones Benefit Fund and the Pliny Earle Chase Memorial Fund, not needed for pensions. Present book value, \$112,040.73. The income from this fund, together with the income from the four above-mentioned funds, is used for old style pensions. Income not needed for pensions was capitalized until 1932; then any unused income was used toward the College's share in cost of new contributory pensions with the Teachers' Annuity and Insurance Association. Now the old style pensions call for more than the income of all these Pension Funds. When the proper time comes in an actuarial sense, the principal of this fund can be used as well as the income for the old style pensions until they cease.

FUNDS FOR SPECIAL PURPOSES

THOMAS SHIPLEY FUND

Founded in 1904 by gift of \$5,000 from the late Samuel R. Shipley as a memorial to his father, Thomas Shipley. Present book value, \$5,248.00. The income only to be used for lectures on English Literature at the College. In case of actual need, at the discretion of the President of the College, the income can be used for general expenditures.

ELLISTON P. MORRIS FUND

Founded in 1906 by gift of \$1,000 from Elliston P. Morris, '48. The income is to be used as a prize for essays to be written by students on the subject of Arbitration and Peace. "The Elliston P. Morris Prize" of \$40 is given in each year, the competition being open to all undergraduates and to graduates of not more than three years' standing.

In 1929, it was determined, with the consent of the family of Elliston P. Morris, that when the prize is not awarded the income may be used for the purchase of library books on arbitration and peace. Present book value, \$1,126.75.

JOHN B. GARRETT READING PRIZE FUND

Founded in 1908 by a gift of \$2,000 par value of bonds by the late John B. Garrett, '54. It was the purpose of the donor to ensure the permanence of a prize or prizes for Systematic Reading, which he had given for a number of years. The prizes were not awarded from 1922 to 1939 on account of default of the bonds. Reorganization has resulted in 1939 in sufficient recovery of value to provide again for this prize. Present book value, \$2,247.87.

SPECIAL ENDOWMENT FUND

Founded in 1909 by gift of \$12,000 par value of bonds, book value \$11,800, from an anonymous donor. The income only of this fund to be used "to furnish opportunity for study of social and economic and religious conditions and duties connected therewith, especially from a Christian point of view." The income is used toward the expenses of Summer Schools for Religious Study, which have been held at Haverford and Swarthmore Colleges from time to time, and also for religious education under Friends' care.

On Fifth Month 16, 1930, the Managers adopted the following amendment, made at the suggestion of the donor, now revealed to be John Thompson Emlen, 1900: "If, however, it shall in the course of time be deemed advisable by the President and the Managers that the income of this fund can be used more profitably by the College for other purposes than those herewith stated, it is my desire that they shall act in accordance with their judgment." Present book value, \$9,227.07.

SCHOLARSHIP IMPROVEMENT PRIZE FUND

Founded in 1913 by gift of \$2,000 par value of bonds, book value, \$1,200, from John L. Scull, '05. Present book value, \$2,296.88. The income only to be used to establish two prizes of \$50 and \$45 annually to the two students in the graduating class showing the most marked and steady improvement in scholarship during their college course.

ELIZABETH P. SMITH FUND

Founded in 1915 by bequest of \$1,000 from Elizabeth P. Smith. Present book value, \$1,727.00. The income only to be used as a prize for the best essays on Peace written by students of the College.

S. P. LIPPINCOTT HISTORY PRIZE FUND

Founded in 1917 by gift of \$2,500 par value of bonds, book value, \$2,546.88, from beneficiary of the estate of S. P. Lippincott, '86. The income only to be used as an annual history prize, which is designated "The S. P. Lippincott History Prize." The award is to be made on the basis of a competitive essay. In any year when no award is made, the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$2,546.88.

FRANCIS STOKES FUND

Founded in 1919 by gift of \$5,000 in securities, book value, \$5,000, from Francis J. Stokes, '94, in memory of his father, Francis Stokes, of the Class of 1852, and a Manager of Haverford from 1885 until his death in 1916. The income is to be used for extending the planting of trees and shrubs on the College grounds. The wish is expressed, but not as a binding condition of the gift, that the Campus Club should have the direction of the expenditure of this income. Present book value, \$5,120.30.

GEORGE PEIRCE PRIZE FUND

Founded in 1919 by gift of \$600, and increased in 1920 by further gift of \$400 from Harold and Charlotte C. Peirce in memory of their deceased son, George Peirce, '03. Present book value, \$3,071.60. The income only is to be used for a prize, to be called the George Peirce Prize in Chemistry or Mathematics, to the student who, in the opinion of the Faculty, has shown marked proficiency in either or in both of these studies and who wishes to follow a profession which calls for such preparation. Unused income is capitalized, as requested by the founders of the fund. Present book value, \$4,302.19.

LYMAN BEECHER HALL PRIZE FUND

Founded in 1924 by donation of securities of par value, \$2,000, book value, \$1,820, from the Class of 1898 in commemoration of their 25th anniversary of graduation to establish an annual prize of \$100 in Chemistry in honor of Doctor Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917. Present book value, \$2,155.00.

NEWTON PRIZE FUND

Founded in 1925 by donation of five shares of General Electric Co. stock by A. Edward Newton, par value, \$500, and book value, \$1,348.25. The income only is to be used for "The Newton Prize in English Literature to the undergraduate who shall submit the best essay on some subject connected with English literature." In 1930, the award was changed to be on the basis of Final Honors, and in any year when no award is made the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$1,397.75.

EDWARD B. CONKLIN ATHLETIC FUND

Founded in 1925 and added to in 1926, 1927 and 1929 by Frank H. Conklin, '95, in memory of his brother, Edward B. Conklin, '99. Present book value, \$2,400.00. The income is to be used without restriction in any branch of athletics.

ARBORETUM FUND

Founded in 1928 by setting aside \$5,000 from proceeds from sale of 5.811 acres of land on the southern boundary and southeast corner of the College farm. Until otherwise ordered by the Managers, the fund is to be invested and

the income only is to be used under the direction of the Campus Club for trees and shrubs upon the College grounds, or for their care, or for other similar purposes. Addition in 1951 (through 1949 campaign) of \$4,775 by Edward Wortman. Present book value, \$9,362.75.

WILLIAM ELLIS SCULL PRIZE FUND

Founded in 1929 by William Ellis Scull, '83, by a gift of \$2,000. The income is to be used annually, so long as the Managers may judge expedient, as a prize to be awarded at Commencement by the Faculty to that upper classman who in their judgment shall have shown the greatest improvement in voice and the articulation of the English Language. The prize is to be known as "The William Ellis Scull Prize." Present book value, \$2,000.00.

PAUL D. I. MAIER FUND

Founded Tenth Month 7, 1936, by bequest of \$1,000 from Paul D. I. Maier, '96, of Bryn Mawr, Pa. The bequest provides for the continuance of the Class of 1896 Prizes of \$10 each in Latin and Mathematics, and any balance of income is to be used for general purposes. Present book value, \$1,000.00.

STRAWBRIDGE OBSERVATORY MAINTENANCE FUND

Founded Second Month 13, 1937, from donations of \$5,627.37 from members of the Strawbridge family, being the amount in excess of the actual cost of the rebuilding and reequipping of the William J. Strawbridge, '94. Memorial Astronomical Observatory. The income is used for the maintenance and equipment of the observatory. The principal can be used for additional equipment, if so determined by the Board of Managers. In 1938 and 1939 an astrographic camera was so purchased at a cost of \$1,787.83. Present book value, \$3,839.54.

C. WHARTON STORK ART FUND

In First Month, 1930, C. Wharton Stork, of Class of 1902, donated to the Corporation securities of a then value of \$69,000 on account of a contemplated gift for the purpose of erecting, equipping, and furnishing an Art Museum at the College. Purchases were made by C. Wharton Stork of paintings, which are hung in the Library. This fund is to be liquidated and is not included in the total of the funds.

JACOB AND ENGIE BUCKY MEMORIAL FOUNDATION

Founded Sixth Month 4, 1942 by gift of \$2,000.00 from Colonial Trust Company of New York and Solomon L. Fridenberg of Philadelphia, co-trustees under the will of Eugenie Bucky, deceased (late of New York), the income only to be used. At the same time accumulated income of \$2,000.00 was also donated as Bucky Foundation Gift, this amount to be available for use for the same purposes as the income of the Foundation. Extracts from Mrs. Bucky's will and codicils in reference to the purposes of the Bucky Foundation are here made as follows:

"The purpose or object of such a Foundation or Fund is and shall be for the encouragement of them who seek new truths, and who endeavor to free and clear from mystery and confusion our knowledge concerning God¹; and thereby to enforce more effectively the common laws of mutual love and obligation, peace and goodwill, between and among our several creeds, races, nations, and markets.²

"My aim, intention, purpose and object is to help in promoting piety among men, enlightening their ignorance and bettering their condition, by making more and more extensive and by spreading among the public at large not only the preaching but also the practicing of the words of the . . . American motto 'In

'God We Trust,' and of the . . . Preamble to the Constitution for the United States of America. I believe and therefore I aim, intend and purpose that the uplifting of men, women and children to the standard of life taught in the Scriptures and the Constitution for the United States of America is indeed the work of Charity, dispels ignorance, inculcates generous and patriotic sentiments, and fits the public groups and the individual men or women for their good usefulness in the American Commonwealth."

1. Associated with the American motto "In God We Trust."

2. Associated with the Preamble of the Constitution for the United States of America—"to form a more perfect union, establish justice, insure domestic tranquility, provide the common defense, promote the public welfare, and secure the blessings of liberty to ourselves and our posterity."

In 1945-1946 and 1954-1955 further gifts from the Trustees were added to the fund. Unused income, if any, has also been capitalized. Present book value, \$7,117.62.

MATHEMATICS DEPARTMENT PRIZE FUND

Founded May 20, 1943 from gifts totaling \$900.00 of members of the Mathematics faculty and others. A further gift of \$125 was made in 1943-44. The unused income is added to principal. This capitalized the annual prizes that had been given by the Mathematics professors for many years.

The Mathematics Department Prizes for freshmen, \$25.00, are awarded annually, in competition, by examination. Present book value, \$1,675.43.

WILLIAM T. ELKINTON FUND

Founded Ninth Month 6, 1944, by bequest from William T. Elkinton, of Philadelphia, arising from a Trust set up by him during his lifetime. The principal was \$2,491.50 and income received, \$11.11, a total of \$2,502.61. After the death of a life beneficiary, the Trust provided: "to pay over, assign and transfer one of said equal parts unto the Corporation of Haverford College (a corporation of the State of Pennsylvania); the principal fund thus passing to said Corporation to constitute a part of such endowment as may be established at Haverford College as a fitting memorial of Friends' relief work abroad, which memorial 'should foster the peaceful relations of the United States with foreign countries by acquainting our youth with the principles of European governments and with international problems'; provided however, that if no such Endowment should be established at Haverford College prior to the expiration of one year after the principal of the Fund hereby conveyed becomes distributable under the provisions of this deed, the said one-third part of the fund hereby conveyed shall be devoted by the Corporation of Haverford College for such other purpose as the Trustees acting hereunder, their survivor or successor, shall designate, preferably for the furtherance of education in some form at Haverford College or for providing assistance in the form of scholarships to promote education."

In accordance with a suggestion from President Morley, concurred in by Thomas W. Elkinton representing the Trustees, the Managers voted on Ninth Month 22, 1944, that "the income until otherwise directed, is to be used for traveling and other expenses in the attendance at intercollegiate conferences for discussion of international problems by representatives of the International Relations Club at Haverford." The Trustee further stated "as long as the activities of the Club are closely related to 'acquainting our youth with the principles of European governments and with international problems,' the use of the income by the Club would be satisfactory."

TILNEY MEMORIAL FUND

Founded in First Month, 1945, by gifts totaling \$2,000 by I. Sheldon Tilney, 1903, in memory of his parents, John S. and Georgiana E. Tilney. The income is to be used "to try to influence the student body towards a more religious viewpoint of life." Permission was also granted by the donor that "the income may be used also in connection with a scholarship for students in the field of Philosophy or Biblical Literature."

In 1945-1946 the fund was increased to \$5,000, by gifts of \$1,000 from Georgiana S. Kirkbride and \$2,000 from Robert W. Tilney, sister and brother of I. Sheldon Tilney. In 1948-49 a further gift of \$250 was received from I. Sheldon Tilney. In 1949-50 a further gift of \$1,000 and in 1952-53 \$500 was received from I. Sheldon Tilney. Present book value, \$7,000.

CLASS OF 1902 LATIN PRIZE FUND

Founded Second Month 2, 1945, by gift from Class of 1902 of \$142.90, being proceeds of sale of security formerly purchased and held by the Class to perpetuate a Latin Prize of \$10 annually at Haverford. The Class had donated the income for this prize since 1913. An unused balance of \$39.00 of such donations was transferred to the income account of this fund.

CLASS OF 1898 GIFT

Founded Sixth Month 12, 1948, by contributions totaling \$6,100 from members of the Class of 1898 as a 50th Anniversary Gift of their graduation. The conditions of the gift were "For a period of 25 years the income only produced by the fund is to be used to pay the expenses of lectures at the College by qualified persons on such subjects and at such times as the President of the College, with the advice of the Faculty, may think best, including at the discretion of the President, conferences between the lecturers and the students. After August 31, 1973, the income and/or principal of the fund, may, at the discretion of the Board of Managers, be used for any purpose in connection with the College." Present book value is \$6,315.00.

EDMUND J. LEE MEMORIAL AWARD FUND

Founded Eighth Month 31, 1948, by donations totaling \$906.50 from members of the Class of 1943 on the occasion of their Fifth Reunion. The Class desired "to perpetuate the memory of Edmund Jennings Lee, 2nd, its sole member killed in the past war, and to stimulate in the College that spirit of service for which he was known. In 1948-1949 a further gift of \$100 was received from Miss Mildred W. Lee, sister of Edmund J. Lee.

"The proceeds from the invested fund shall be used to establish an annual award to be known as the Edmund J. Lee Memorial Award to be awarded annually beginning in 1949, to the recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extra-curricular activities, spiritual growth, or college spirit, in individuals or in the College as a whole during the year. The Award is to be used by its recipient in continuing to render such service."

THE DAVID R. BOWEN PREMEDICAL FUND

Established in 1950 by the family and friends of the late Dr. David R. Bowen, who, regretting a definite lack in his own training, believed strongly that men preparing to be physicians should receive a basic liberal education of the kind offered at Haverford College. The income is to be used at the discretion of the President of Haverford College, to purchase books for the use of premedical students, pay for professional magazine subscriptions, for lecturers, or for any other projects closely related to premedical training. Further gifts have been made yearly to the fund. Present book value, \$902.55.

JONATHAN & RACHEL COPE EVANS FUND

Founded in 1952, through gifts to the 1949 Campaign by the children and grandchildren of Jonathan and Rachel Cope Evans. The principal is to be invested and the income used one-half for scholarships and one-half for the purposes of the Rufus M. Jones Fund for Advancement of Teaching. If, however, at the expiration of twenty-five years the Board of Managers deems it advisable to use the income, or if necessary the principal, of the Fund for other purposes, it shall be free to do so. A further gift was made in 1952-53 of \$500. Present book value is \$15,043.62.

EDWARD HAWKINS MEMORIAL FUND

Established in 1953 by a gift to the College from the Class of 1937. The Fund is given in memory of Edward Hawkins, a member of that class.

The income to be used for the purchase of equipment required for intramural athletics. If such becomes impracticable, the income is to be used as directed by the Managers. Present book value is \$1,457.44.

WILLIAM W. BAKER PRIZE FUND

Founded in 1954 by bequest of \$500.00 from Mertie Gay Baker, who died January 31st, 1954, the fund is to be invested and the income given as a prize in the study of Greek. If the study of Greek at the said College should be discontinued, I direct that the income be given as a prize for the study of Latin and should the study of Latin be discontinued, I direct that the income be used as a prize in the study of Ancient History or Biblical Literature.

CHRISTIAN RELIGION AND THOUGHT FUND

Founded in 1958 by a special grant from an anonymous source, this amount is to be used to establish a fund for purposes connected with the problems of Christian religion and thought.

Until otherwise directed by the Board, the income may be used as directed by Professor Douglas Steere, and the administration of the college; the principal may be expended from time to time upon their recommendation and at the discretion of the Board of Managers for the above purposes. The present book value of the fund is \$4,000.

THE KURZMAN PRIZE FUND

This fund was established in 1958 by Harold P. Kurzman of New York, to provide a prize for the senior who has generally performed best and most creatively in political science course work. This prize, initially established in the amount of \$125, was given in appreciation of the benefit to Harold P. Kurzman, Jr., '58, from his work in the political science department. In any year when it is the judgment of the department that no work has been performed of sufficient merit to warrant this award, the funds shall be used to purchase books in this field for the Library or shall be expended in other ways for the benefit of the department. Surplus income also may be used in this manner. Present book value \$2,784.38.

JOHN G. WALLACE AWARD FUND

This fund established in 1958 by a gift from John G. Wallace and added to annually, is to be used toward the purchase and maintenance of a best actor award cup for Class Night, "and the awarding each year of a silver plated replica of the trophy to the recipient of the award." Present book value \$100.00.

FUNDS WITHDRAWN

The following funds left to the college with no restrictions, have been wholly consumed to meet in part the Corporations' share of the Building Program of 1953-1956:

Ellen Waln Fund
Henry Norris Fund
Clarence W. Bankard Fund
Mary Brown Fund
Emma Ridgway Comly Fund
Mary K. Comly Fund
Charles J. Rhoads Fund

STATED MEETINGS OF THE CORPORATION AND THE MANAGERS

The Annual Meeting of "The Corporation of Haverford College" is held in Tenth Month at such time and place as the Board of Managers may determine.

The Stated Meetings of the Managers will be held on the third Sixth-day of First, Third, Fifth, Ninth and Eleventh months.

LEGACIES

The friends of the College, including former students, and all who are interested in the promotion of sound learning, are invited to consider the College in the disposition of their estates by will.

FORM OF BEQUEST OF PERSONAL PROPERTY

I give and bequeath, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, the
sum ofDollars.

FORM OF DEVISE OF REAL ESTATE

I give and devise, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, its Successors and Assigns, in fee, the following described real estates:
(Here describe the real estate.)

HAVERFORD COLLEGE BULLETIN



Directory, 1959-1960

VOLUME LVIII

NUMBER FOUR

April, 1960

Issued quarterly by Haverford
College, Haverford, Pennsylvania

Entered as second-class matter November 2, 1944, at the Post
Office at Haverford, Pa., under the Act of August 24, 1912.

Printed in U.S.A.

1959

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Sept.			1	2	3	4	5	Nov.	1	2	3	4	5	6	7
	6	7	8	9	10	11	12		8	9	10	11	12	13	14
	13	14	15	16	17	18	19		15	16	17	18	19	20	21
	20	21	22	23	24	25	26		22	23	24	25	26	27	28
	27	28	29	30					29	30					
Oct.					1	2	3	Dec.			1	2	3	4	5
	4	5	6	7	8	9	10		6	7	8	9	10	11	12
	11	12	13	14	15	16	17		13	14	15	16	17	18	19
	18	19	20	21	22	23	24		20	21	22	23	24	25	26
	25	26	27	28	29	30	31		27	28	29	30	31		

1960

	S	M	T	W	T	F	S		S	M	T	W	T	F	S	
Jan.							1	2	Apr.						1	2
	3	4	5	6	7	8	9	3		4	5	6	7	8	9	
	10	11	12	13	14	15	16	10		11	12	13	14	15	16	
	17	18	19	20	21	22	23	17		18	19	20	21	22	23	
	24	25	26	27	28	29	30	24		25	26	27	28	29	30	
	31															
Feb.		1	2	3	4	5	6	May	1	2	3	4	5	6	7	
	7	8	9	10	11	12	13		8	9	10	11	12	13	14	
	14	15	16	17	18	19	20		15	16	17	18	19	20	21	
	21	22	23	24	25	26	27		22	23	24	25	26	27	28	
	28	29							29	30	31					
Mar.			1	2	3	4	5	June				1	2	3	4	
	6	7	8	9	10	11	12		5	6	7	8	9	10	11	
	13	14	15	16	17	18	19		12	13	14	15	16	17	18	
	20	21	22	23	24	25	26		19	20	21	22	23	24	25	
	27	28	29	30	31				26	27	28	29	30			

College days in heavy-face type.

Calendar

1959-1960

New students arrive Wednesday afternoon	Sept. 16
Registration of all new students	Sept. 18 & 19
Returning students arrive, beginning Sunday afternoon	Sept. 20
Beginning of College year with Collection 11 A.M.	Sept. 21
Registration of returning students to be filed by 4:30 P.M.	Sept. 21
First semester classes begin 8 A.M.	Sept. 22
Friday morning classes according to Saturday schedule	Nov. 20
Saturday (Swarthmore Day) no classes	Nov. 21
Thanksgiving vacation begins 1 P.M.	Nov. 25
ends 8 A.M.	Nov. 30
Registration (Spring Term)	Dec. 8, 9, 10
Christmas vacation begins 4 P.M.	Dec. 18
ends 8 A.M.	Jan. 4
First semester program ends 6 P.M.	Jan. 14
All papers assigned must be turned in by 4 P.M.*	
Mid-year examinations (dates inclusive) **	Jan. 16 to Jan. 30
Second semester classes begin 8 A.M.	Feb. 1
Spring vacation begins noon	Mar. 26
ends 8 A.M.	Apr. 4
Applications for Scholarships	Apr. 15
Major Registration card for men in the Fourth term must be filed by 4 P.M.	Apr. 15
Registration (Fall Term)	Apr. 26, 27, 28
Manuscripts in competition for prizes must be filed in the Registrar's Office by 4 P.M.	May 2
Second Semester classes end 12 noon	May 14
All papers assigned must be turned in by 4 P.M.*	
Senior Comprehensive Examinations (dates inclusive)	May 16, 17, 18, 19
Final Examinations (dates inclusive) **	May 18 to June 1
Commencement	June 3

*If a paper is assigned in place of the final examination in a course, the date by which it is due may be set by the instructor not later than 4 P.M. on Tuesday of the final week of the examination period, or for seniors in their final semester, noon on Monday of that week. Late papers will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean.

**Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.

HAVERFORD COLLEGE

Campus Activities Calendar 1959 - 1960

September

- 16-20 Freshman Orientation
- 18-19 Registration of all new students
- 21 Collection, beginning of college year
- 21 Registration of all returning students
- 22 First semester classes begin
- 25 Bryn Mawr mixer at Bryn Mawr

October

- 3 Cross Country - Albright
- 3 Bryn Mawr mixer at Haverford
- 7 Soccer, varsity and JV - Princeton
- 10 Football - Dickinson
- 16 Cross Country - Lafayette
- 17 Football - Johns Hopkins
- 17 Soccer - Ursinus
- 17 JV Soccer - Hill School
- 17 Homecoming Day
- 17 Sophomore Dance
- 24 JV Soccer - Penn Ogontz
- 24 Cross Country Triangular meet - Washington College & Johns Hopkins
- 28 JV Soccer - Penn
- 30 Cross Country - Lehigh
- 31 Soccer - LaSalle
- 31 Medical College Admission Tests

November

- 7 Cross Country - Moravian
- 14 Football - Susquehanna
- 14 Soccer - Rutgers, N. B.
- 14 Law School Admission Test
- 20 JV Soccer - Swarthmore
- 20-21 Drama Club - Home
- 21 Varsity Club Dance
- 21 Graduate Record Examinations
- 25-30 Thanksgiving Vacation

December

- 2 Basketball - Delaware
- 5 Basketball - Pharmacy
- 8-10 Registration for Spring semester

December-January

- 16 Basketball - Moravian
- 16 JV Basketball - Ogontz
- 17 Glee Club Christmas Concert in Roberts Hall
- 18 - Jan. 4 - Christmas Vacation

January

- 6 Basketball , varsity and JV - PMC
- 9 Wrestling, varsity and JV - Ursinus
- 9 Fencing - Rutgers, Newark
- 9 Basketball, varsity and JV - Ursinus
- 13 Fencing - Muhlenburg
- 14 First semester classes end
- 16 Graduate record examinations at Haverford
- 16-30 Mid-year examinations

February

- 1 Second semester classes begin
- 3 Basketball - National Agriculture
- 6 Fencing - Rutgers, N.B.
- 6 Freshman Dance
- 10 Basketball, varsity and JV - Ursinus
- 12 Wrestling, varsity and JV - Drexel
- 17 Basketball, varsity and JV - Drexel
- 17 Fencing - Stevens
- 20 Fencing - Drew
- 20 Wrestling, varsity and JV - PMC
- 20 Law School Admission Test
- 27 Basketball, varsity and JV - Swarthmore
- 27 Wrestling, varsity and JV - Swarthmore

March

- 1 Applications for fellowships must be filed
- 3- 4 Class Night
- 5 Junior Dance
- 5 Fencing - Middle Atlantic at Haverford
- 15 Student Association Officers primary election
- 22 Student Association Officers final elections
- 26 - April 4 - Spring Vacation

April

- 6 Baseball - PMC
- 6 Tennis - Temple
- 6 Golf - St. Joseph's
- 7 Tennis - Brown

April

- 8 Golf - West Chester
- 8 Student's Council Representatives elections
- 9 Law School Admission Test
- 13 Baseball - Temple
- 13 Tennis - Moravian
- 15 Application for scholarships and registration for majors
- 15 Golf - Delaware
- 16 Tennis - Johns Hopkins
- 20 Tennis - LaSalle
- 23 Graduate Record Examinations
- 23 Track - Ursinus
- 23 Glee Club
- 23 Glee Club Dance
- 26-28 Registration for Fall term
- c27 Baseball - LaSalle
- 27 Golf - LaSalle
- 27 Track - PMC
- 30 Tennis - Swarthmore

May

- 2 Manuscripts for prize competitions must be filed
- 4 Golf - Drexel
- 6-7 Drama Club at Haverford
- 7 Alumni Day
- 7 Baseball - Ursinus
- 7 Track - Swarthmore
- 7 Medical College Admission Tests at Haverford
- 11 Baseball - St. Joseph's Home
- 14 Baseball - Moravian
- 14 Tennis F & M
- 14 Second semester classes end
- 16-19 Senior Comprehensives
- 18 - June 1 Final Examinations

June

- 1 - Phi Beta Kapps annual meeting
- 3 - Commencement

Those responsible for the scheduling of extra-curricular events which make use of college facilities, or of events off-campus at which a group of students represents the college, shall notify the chairman of the Student Affairs Committee of the date in advance of the event.

Students arranged by Class in which they are
enrolled during the first semester of 1959-1960.

FRESHMAN CLASS

Andrews, Raymond W. Jr.	Heuss, John F.
Auer, Lawrence H.	Hilliard, Kirk L., Jr.
Barlow, Barry H. A.	Hiltebeitel, Alfred J.
Barnett, Gordon T.	Hogenauer, Daniel O.
Bates, David T.	Hole, A. David, III
Beik, William H.	Houston, George W.
Belanger, Terry B.	Houston John D. II
Bernheimer, Charles C.	Hunt, David
Bibber, Henry G.	Hutto, Robert A.
Blumberg, Herbert H.	Johnson, John P.
Blumenthal, James D.	Johnson, Stephen C.
Bobrovnikoff, Stephen P.	Jonas, Daniel M.
Bowles, Francis P.	Kannerstein, Gregory
Carroll, John S.	Kauffman, Christopher
Cole, John Richard	Kelley, William S.
Conn, Charles B. III	Kessinger, Thomas G.
Cook, John Robert	Kohn, Roger L.
Crane, Alan Taft	Krumm, Tahlman, Jr.
Danecker, David C.	Lary, Peter Hal
Darlington, Horace, Jr.	Lawn, W. Geoffrey
David, S. Roy	Learned, William D.
deRis, George Raymond	Lederberg, Bernard A.
Dorwart, William V., Jr.	Lehner, Andreas P.
Eddy, Peter A.	Leonard, David K.
Ettinger, Stephen J.	Levi, William G.
Ezerman, Robert H.	Levitt, Stuart L.
Fasoldt, Ranson C.	Liesveld, John H. Jr.
Foerster, Bruce S.	Lipez, Kermit V.
Franklin, Joseph E. Jr.	MacLay, G. Jordan
Freund, Henry T.	MacRae, James B. Jr.
Geddes, James F. Jr.	Margolis, John D.
Ghiglione, Loren F.	Maxfield, Clark N.
Gilbert, Ian R.	McGonaghy, John S. Jr.
Gillam, B. Scott	Mechling, William H. III
Grambs, Jeffrey W.	Mervine, William R.
Hall, David Byron	Miller, Robert F.
Hammaker, Wayne E.	Morrissey, Charles Wm.
Harter, Gerald M.	Moyer, Paul R.
Hartman, Edwin M.	Noell, K. Thomas
Herzel, Roger W.	Nolte, Robert W.

Norberg, H. Peter
Northrup, Ernest T.
Oelkers, Wilson H. Jr.
Penzell, Michael E.
Pollard, Frank H.
Porteous, Donald C. Jr.
Powers, Charles W.
Quill, E. Spencer
Quint, Arnold H.
Raach, Frederick E.
Richardson, James I.
Richardson, Thomas W.
Riggan, William G.
Roberts, John H.
Rose, Timothy L.
Ruberg, Robert L.
Ruff, John Douglass
Schamberg, Jay F.
Schulze, Joseph R.
Schweitzer, Thomas M.
Schwentker, Edward P.
Shermer, William B.
Siegel, Andrew
Sipe, Robert E.
Smiley, Daniel C.

Smith, Charles W.
Smith, George P.
Smith, Kent G.
Smith, Stephen S.
Spring, Michael H.
Stanley, Frank J., III
Stavis, Benedict R.
Stone, Alan N.
Taylor, Joseph H. Jr.
Thrall, Charles A.
Transue, Jacques H.
Unger, Richard W.
Vincent, Anthony F.
Walton, Anthony J.
Weber, Michael J.
Werner, Michael W.
Wertime, John T.
Westberg, Russell E.
White, Robert A.
Williams, Lindsley
Williams, Neil K.
Wilson, Peter N.
Winterer, Joerg C.
Wood, John Stephen
Worth, Fred Robert

SOPHOMORE CLASS

Adams, Donald W.
Akashi, Norio
Allendoerfer, Robert D.
Aronoff, Michael S.
Atchison, D. Alan
Baehr, Joel D.
Baldwin, Malcolm F.
Barber, G. Putnam
Barlow, Thomas J., III
Bemis, Robert
Bertolet, John C.
Blair, John F., Jr.
Blauvelt, Gerritt H.
Block, James Alan
Borton, James W.
Bower, John R.

Burgin, James M.
Chace, William M.
Cocke, C. Lewis, Jr.
Cooper, Jeffery M.
Dahlberg, James E.
deLuca, Robert N.
DeNie, Frans M.
Deshong, Howard C., Jr.
Erb, William Henry
Fisher, Stephen W.
Flaccus, Jonathan
Fowler, Albert W.
Fowler, Booth R.
Fox, John Duffell
Freeman, George W.
Freilich, William B.

Gaetjens, David L.
Gage, Vance A.
Garrett, Peter K.
George, Jonathan C.
Gwatkin, Davidson R.
Hampden, Michael D.
Hartman, Mark L.
Hauri, Theodor M.
Hemmingway, David H.
Hirst, John A.
Hollander, Edward S.
Hollander, Sidney
Holtzman, Garry L.
Hoopes, James B.
James, R. Brandon
Jenkins, Harold D.
Jenks, Robert H.
Johnson, Allen D.
Klein, David L.
Klinger, Forrest E., Jr.
Knight, Donald D.
Knox, Hugh W.
Krone, Philip S.
Lane, Peter Otto
Larson, Lex K.
Linville, Robert W.
Lippard, Stephen J.
Lundt, Peter Alan
Lynn, Robert W.
MacLeod, Kenneth A., Jr.
Mears, Preston K. Jr.
Meyer, James I.
Middleton, J. Howard, Jr.
Miller, Stephen H.
Mitchell, David W.
Morgan, K. Scott
Musgrove, Philip A.
Nakayama, Ken
Natelson, Ethan A.
Parker, Richard B.

Parker, William E.
Penn, Richard D.
Petraske, Alan R.
Pilbrow, David W.
Pinedo, Victor, Jr.
Robinson, Charles R.
Rodell, Michael
Roever, Frederick H.
Rogerson, Allen C.
Rower, Kenneth M.
Sah, Benn C.
Salisbury, Roger E.
Sanford, Frederic G.
Sedwick, W. David
Sharpless, Thomas K., Jr.
Shillock, J. Christopher, III
Snider, Donald L.
Spiegel, Adam
Stafford, Craig F.
Stanley, Matthew W. Jr.
Steigman, William F.
Stevenson, Karl W.
Strickler, Matthew
Tai, George Marshall
Talbot, David N.
Tannenbaum, Robert S.
Turner, Daniel S.
VanCleave, Richard M.
Van Denbergh, Ross
Vaux, Henry J., Jr.
Waddell, Lucian A., Jr.
Waite, Stephen
Warfield, Robert B., Jr.
Watkins, Charles B.
Weyand, James G.M., Jr.
Wichura, Michael J.
Williams, John G.
Williams, John S., Jr.
Yearley, Lee H.
Zobian, Edward J.

JUNIOR CLASS

Abrams, Robert
Adams, Gordon W.
Allen, J. W. Linn
Alving, Carl R.
Anderson, Marc B.
Armstrong, Alan M.
Arny, Thomas T.
Baker, David R.
Ballard, Alexander, Jr.
Beggs, Thomas A.
Behling, George R.
Belsely, David A.
Besdine, Richard W.
Bluestein, Richard
Bonner, Hugh, Jr.
Boshes, Roger A.
Bowen, David R.
Briod, Marc E.
Brobyn, Robert J. F.
Brooks, Stanley A., Jr.
Brown, Peter G.
Burton, Thomas M.
Callan, Curtis G., Jr.
Caplan, Richard L.
Craig, William A.
Cucinotta, Anthony J.
Decker, Douglass A., Jr.
DelBello, Thomas M.
Dent, Walter J.
deRis, C. Owen
Dohan, Michael R.
Edgar, William H.
Elkins, Joseph H., Jr.
Fauntleroy, Carl N., Jr.
Fenander, Elliot W.
Fernsler, George L., Jr.
Forster, Norman H.
Fox, Peter D.
Gary, Melvin L.
Gibson, George A.
Gillmor, Richard P.
Goodman, Oscar B.
Gould, John W.

Griffith, Martin G.
Grose, William R., II
Groves, Roger L.
Hanson, David P.
Hanson, John P.
Harvey, Robert B.
Hatch, Edward L.
Heilman, J. Daniel
Henderson, Thomas A.
Hetzal, Henry T.
Hoen, Theodorus N.
Hoffman, Erik P.
Holsoe, Svend E.
Houston, William A.
Howe, John S. Jr.
Jernquist, Peter B.
Jones, Stark G.
Karush, Arnold D.
Kelly, C. Robert
Kimmich, Christoph M.
Klineberg, Stephen L.
Kovacsics, Gyula
Lehfeltdt, Martin C.
Linthicum, Alexander
Lockey, Richard F.
MacBride, James R.
Martin, Robert L.
Matchett, Noel D.
Mathews, Robert G., Jr.
McLean, Hugh C.
Mechling, Edward A., II
Meyers, N. Marshall
Miller, Andrew L.
Ortman, Robert A.
Parker, Robert M.
Paskow, Alan K.
Pelouze, H. Pierce, 3rd
Pendelton, James N.
Pepper, William, Jr.
Pierce, E. Everett, III
Pierson, Daniel H.
Platenius, Peter H.
Quinter, Ralph, III

Ramseyer, Stephen F.
Rauch, Richard M.
Read, William C.
Reiner, Edward
Rhoads, George G.
Ritter, Eugene K., Jr.
Schambelan, Howard L.
Scott, Leighton R., Jr.
Shafer, Stephen J.
Shelton, Frank W.
Showe, Michael K.
Silverblatt, Edward R.
Smillie, James B.
Smith, Jere P.
Smith, Lewis F.
Speakman, William H., 3rd
Stein, George H., Jr.
Stokes, Francis J. III

Stowe, Richard W.
Swan, Frederick C.
Swift, John K.
Taylor, Harold E.
Taylor, Hollinshead N., III
Thompson, Mark E.
Threadgill, F., Dycus, Jr.
Tillis, Alan C.
Trabert, Kenneth K.
van der Veen, Jan H.
Vernon, Steven K.
Walker, David J.
Walling, William E., Jr.
Weil, Michael R.
Wenzel, Richard P.
Wills, John W., Jr. Day
Young, Frank H.
Ziegenfuss, Jay F., Jr.

SENIOR CLASS

Albright, Randall L.
Alexander, Gregory G.
Allen, Russel G., Jr.
Andrews, Willard E.
Arnow, Peter L.
Baker, Dennis J.
Bennett, Michael J., Jr.
Blackburn, Paul P., III
Blanchard, James T.
Bradley, Keith W.
Bullard, Truman C.
Carlin, James F., Jr.
Carpenter, George G.
Clark, Allen M.
Coker, John W.
Coles, Robert L.
Collett, Jonathan H.
Conn, Coulson A.
Cook, Daniel J.
Cooper, James D.
Cornwell, Robert G.
Dahlberg, Albert E.
David, J. Harris
Duff, Thomas A.

Forman, Lawrence T.
Fulkerson, Joseph G.
Gerdine, Philip, Jr.
Goggin, Malcolm L.
Harvey, Frank L., III
Haworth, Gary N.
Hayter, John B.
Hillier, R. David
Howard, Peter B.
Howard, William J.
Hurford, John B.
Jones, William W.
Kaufman, Malcolm E.
Klingenmaier, C. Herman
Kohn, Michael H.
Lary, Nikita, M.
Levin, Gerald M.
Lipton, Charles S.
Longbotham, Edward M., Jr.
Macort, John G., Jr.
Margie, Robert P.
McCurdy, Glenn A.
McKelvey, Donald B.
Miller, Robert S.

Morgan, David W.
Muller, Werner E., Jr.
Murray, Wallace A., Jr.
Newcomb, Benjamin H.
Osgood, Charles F.
Parker, George G. C.
Potter, David
Putnam, Kendrick W.
Ramey, J. Allen
Raymond, Geoffrey H.
Rhoads, David G.
Rhoads, Jonathan E., Jr.
Roberts, Charles C.
Rogers, Joseph E., Jr.
Rondthaler, David L.
Rosenbaum, David H.
Schear, Richard D.
Schramm, Lawrence P.
Schulze, Frederick C., Jr.

Shapiro, Stephen S.
Sharp, Alexander B.
Sheitelman, A., Louis
Shepherd, John E., Jr.
Smith, Jonathan Z.
Speer, Brownlow M.
Stevenson, Leland E., Jr.
Stites, Daniel P.
Stone, John W.
Summers, Dudley W.
Tatnall, Samuel M. V.
Teitelbaum, Richard L.
Van Alphen, Robert J.
Wedner, Marc R.
Woldorf, Norman M.
Wood, Stacy B. C., Jr.
Wright, Arthur W.
Wright, Ralph T.

GRADUATE & SPECIAL STUDENTS

Brolin, Karl E. (Day)
Gutmann, Helmut
Matsuura, Koichiro

HAVERFORD COLLEGE BULLETIN

1960-1961



Catalog, 1960-61

VOLUME LIX

NUMBER ONE

July, 1960

Issued quarterly by Haverford
College, Haverford, Pennsylvania

Entered as second-class matter November 2, 1944, at the Post
Office at Haverford, Pa., under the Act of August 24, 1912.

Printed in U.S.A.

HAVERFORD COLLEGE BULLETIN



1960—1961

HAVERFORD, PENNSYLVANIA

Contents

College Calendar, 1960-61	5
Corporation	6
Board of Managers.....	6
Faculty	9
Administration	13
Standing Committees of the Faculty.....	15
College Program	17
Aims and Objectives.....	19
History	20
Resources	21
Admission	23
College Entrance Board Tests.....	24
Transfer Students	26
Advanced Standing	26
Financial Arrangements	27
Rooms	27
Expenses	27
College Responsibility	28
Monthly Payments	28
Student Loan Fund.....	29
Student Aid	29
Scholarships	30
Curriculum	36
General	36
Bachelor's Degree	36
Limited Electives	37
Free Electives	38
Non-Academic Electives	38
Major Concentration	38

Freshman Program	40
Preparation for Professions.....	41
Regulations	42
Conflicting Courses	42
Additional Courses	42
Audited Courses	42
Course Changes	42
Special Cases	43
Evaluation of Academic Performance.....	43
Intercollegiate Cooperation	44
Junior Year Abroad.....	44
Visitors and Lectures.....	44
Graduate Study	45
Courses of Instruction.....	47
Arts and Service Program.....	101
Student Government	105
Honor System	105
Student Committees	106
Student Organizations	107
Joint Faculty and Student Groups.....	108
Student Publications	108
Health Program	109
Library, Laboratories, and other Academic Facilities.....	110
Fellowships, Prizes and Honors.....	116
Alumni Association	122
Index	128

1960																
Sept.	S	M	T	W	T	F	S	Nov.	S	M	T	W	T	F	S	
					1	2	3					1	2	3	4	5
	4	5	6	7	8	9	10		6	7	8	9	10	11	12	
	11	12	13	14	15	16	17		13	14	15	16	17	18	19	
	18	19	20	21	22	23	24		20	21	22	23	24	25	26	
	25	26	27	28	29	30			27	28	29	30				
Oct.							1	Dec.						1	2	3
	2	3	4	5	6	7	8		4	5	6	7	8	9	10	
	9	10	11	12	13	14	15		11	12	13	14	15	16	17	
	16	17	18	19	20	21	22		18	19	20	21	22	23	24	
	23	24	25	26	27	28	29		25	26	27	28	29	30	31	
	30	31														

1961															
Jan.	S	M	T	W	T	F	S	Apr.	S	M	T	W	T	F	S
	1	2	3	4	5	6	7								1
	8	9	10	11	12	13	14		2	3	4	5	6	7	8
	15	16	17	18	19	20	21		9	10	11	12	13	14	15
	22	23	24	25	26	27	28		16	17	18	19	20	21	22
	29	30	31					23	24	25	26	27	28	29	30
Feb.				1	2	3	4	May		1	2	3	4	5	6
	5	6	7	8	9	10	11		7	8	9	10	11	12	13
	12	13	14	15	16	17	18		14	15	16	17	18	19	20
	19	20	21	22	23	24	25		21	22	23	24	25	26	27
	26	27	28						28	29	30	31			
Mar.				1	2	3	4	June					1	2	3
	5	6	7	8	9	10	11		4	5	6	7	8	9	10
	12	13	14	15	16	17	18		11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30	31			25	26	27	28	29	30	

College days in heavy-face type.

CALENDAR

1960-1961

New students arrive Tuesday afternoon.....	Sept. 20
Registration of all new students.....	Sept. 22 & 23
Returning students arrive, beginning Sunday afternoon.....	Sept. 25
Beginning of College year with Collection 11 A.M.....	Sept. 26
Registration of returning students to be filed by 4:30 P.M.....	Sept. 26
First semester classes begin 8 A.M.....	Sept. 27
Saturday (Swarthmore Day) no classes.....	Nov. 19
Thanksgiving vacation begins 1 P.M.....	Nov. 23
ends 8 A.M.....	Nov. 28
Registration (Spring Term).....	Dec. 6, 7, 8
Christmas vacation begins 12 noon.....	Dec. 17
ends 8 A.M.....	Jan. 3
First semester program ends 6 P.M.....	Jan. 19
All papers assigned must be turned in by 4 P.M.*	
Mid-year examinations (dates inclusive)**.....	Jan. 21 to Feb. 4
Spring semester classes begin 8 A.M.....	Feb. 6
Spring vacation begins noon.....	Mar. 25
ends 8 A.M.....	Apr. 4
Applications for Scholarships.....	Apr. 15
Major Registration cards for men in the Fourth term must be filed by 4 P.M....	Apr. 15
Manuscripts in competition for prizes must be filed in the Registrar's office by 4 P.M.....	May 1
Registration (Fall Term).....	May 3, 4, 5
Second semester classes end 12 noon.....	May 20
Senior Comprehensive Examinations (dates inclusive).....	May 22, 23, 24, 25
Final Examinations (dates inclusive)**.....	May 23 to June 6
Commencement.....	June 9

*If a paper is assigned in place of the final examination in a course, the date by which it is due may be set by the instructor not later than 4 P.M. on Tuesday of the final week of the examination period, or for seniors in their final semester, noon on Monday of that week. Late papers will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean.

**Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.

Corporation of Haverford College

Officers

DR. S. EMLEN STOKES, *President*
Moorestown, N. J.

WM. MORRIS MAIER, *Treasurer*
1000 Provident Trust Building, Philadelphia 3, Pa.

JOHN F. GUMMERE, *Secretary*
Wm. Penn Charter School, Philadelphia 44, Pa.

WM. NELSON WEST, 3RD, *Assistant Secretary*
1600 Three Penn Center Plaza, Philadelphia 2, Pa.

Members of the Standing Nominating Committee of the Corporation

Term Expires 1960

FRANCIS C. STOKES.....250 E. Main St., Moorestown, N. J.

HENRY C. EVANS.....635 Manatawna Ave., Phila. 28, Pa.

HUBERT R. TAYLOR.....910 Girard Trust Bldg., Phila. 2, Pa.

Term Expires 1961

JOHN A. SILVER.....Apple Hill Farm, Pipersville, Pa.

THOMAS ELKINTON.....65 Haddon Ave., Haddonfield, N. J.

JOHN F. RICH.....830 Buck Lane, Haverford, Pa.

Term Expires 1962

DANIEL D. TEST, JR.....Westtown School, Westtown, Pa.

ARTHUR SILVER.....127 Maplewood Ave., Phila. 44, Pa.

GEOFFREY H. STEERE.....4022 Spruce St., Phila. 4, Pa.

Board of Managers

Ex-Officio as Officers of Corporation

DR. S. EMLEN STOKES, *President*.....Moorestown, N. J.

WM. MORRIS MAIER, *Treasurer*.....1000 Provident Trust Building, Philadelphia 3, Pa.

JOHN F. GUMMERE, *Secretary*.....Wm. Penn Charter School, Philadelphia 44, Pa.

Term Expires 1960

EDWARD W. EVANS.....Awbury, E. Washington Lane, Philadelphia 38, Pa.

WILLIAM A. BATTEY.....605 Walnut Lane, Haverford, Pa.

DR. FREDERIC C. SHARPLESS.....621 Railroad Avenue, Haverford, Pa.

JOHN A. SILVER.....Apple Hill Farm, Pipersville, Pa.

H. JUSTICE WILLIAMS.....1000 Provident Building, Philadelphia 3, Pa.

STEPHEN G. CARY.....160 N. 15th Street, Philadelphia 2, Pa.

HENRY SCATTERGOOD.....Germantown Friends School, Philadelphia 44, Pa.

PHILIP G. RHOADS.....P. O. Box 71, Wilmington 99, Del.

*JERVIS J. BABB.....100 Park Avenue, New York 17, N. Y.

*HERBERT W. REISNER.....102 W. Mermaid Lane, Philadelphia 18, Pa.

*WILLIAM F. TIERNAN, JR.....1528 Walnut Street, Philadelphia 2, Pa.

Term Expires 1961

STANLEY R. YARNALL.....	5337 Knox Street, Gtn., Philadelphia 44, Pa.
DR. HENRY M. THOMAS, JR.....	314 Overhill Road, Baltimore 10, Md.
HAROLD EVANS.....	1000 Provident Building, Philadelphia 3, Pa.
RUSSELL W. RICHIE.....	1212 Market Street, Philadelphia 7, Pa.
DR. JOSEPH STOKES, JR.....	1740 Bainbridge Street, Philadelphia 46, Pa.
*JOHN S. WILLIAMS.....	20 W. Chestnut Hill Avenue, Philadelphia 18, Pa.
RICHARD R. WOOD.....	Riverton Road, R. D., Riverton, N. J.
DANIEL D. TEST, JR.....	Westtown School, Westtown, Pa.
JAMES P. MAGILL.....	Philadelphia National Bank Building, Philadelphia 7, Pa.

Term Expires 1962

M. ALBERT LINTON.....	4601 Market Street, Philadelphia 39, Pa.
THOMAS W. ELKINTON.....	1156 Public Ledger Building, Philadelphia 6, Pa.
HENRY C. EVANS.....	635 Manatawna Avenue, Philadelphia 28, Pa.
GARRETT S. HOAG.....	10 Post Office Square, Boston 9, Mass.
DR. JONATHAN E. RHOADS.....	3400 Spruce Street, Philadelphia 4, Pa.
THOMAS B. HARVEY.....	50 W. Wilkey Street, Philadelphia 23, Pa.
GEOFFROY BILLO.....	30 Smith Avenue, Mount Kisco, N. Y.
PAUL W. BROWN, JR.....	Philadelphia National Bank, Philadelphia 1, Pa.

*Alumni Representative Manager.

Faculty Representatives on Board of Managers

Term Expires 1961

LOUIS C. GREEN

Term Expires 1962

WALLACE T. MACCAFFREY

Alternates: MARCEL M. GUTWIRTH and HOLLAND HUNTER

Officers of the Board of Managers

Chairman of Board

DR. S. EMLÉN STOKES

Secretary of Board

WM. NELSON WEST, 3RD

1600 Three Penn Center Plaza, Philadelphia 2, Pa.

Standing Committees on the Board of Managers

*The Chairman of the Board is an ex-officio
member of all committees*

Executive Committee

DR. S. EMLÉN STOKES, <i>Chairman</i>	M. ALBERT LINTON
EDWARD W. EVANS	RUSSELL W. RICHIE
JOHN F. GUMMERE	GARRETT S. HOAG
DR. JONATHAN E. RHOADS	DANIEL D. TEST, JR.
WM. MORRIS MAIER	WILLIAM F. TIERNAN, JR.
THOMAS B. HARVEY	WM. NELSON WEST, 3RD, <i>Secretary</i>

Committee on Finance and Investment

RUSSELL W. RICHIE, <i>Chairman</i>	WM. MORRIS MAIER
M. ALBERT LINTON	HAROLD EVANS
JAMES P. MAGILL	

Committee on College Property

THOMAS W. ELKINTON, <i>Chairman</i>	PHILIP G. RHOADS
HENRY C. EVANS	JOHN S. WILLIAMS
THOMAS B. HARVEY	HERBERT W. REISNER

Advisory Committee on Trees and Shrubs

JOHN A. SILVER

Committee on Honorary Degrees

RICHARD R. WOOD, <i>Chairman</i>	HAROLD EVANS
STANLEY R. YARNALL	H. JUSTICE WILLIAMS
DR. HENRY M. THOMAS, JR.	DR. JOSEPH STOKES, JR.
HENRY SCATTERGOOD	

Counsel

MACCOY, EVANS & LEWIS
1000 Provident Building, Philadelphia 3, Pa.

Faculty

- HUGH BORTON*President*
B.S., Haverford College; A.M., Columbia University; Ph.D., University of
Leyden; LL.D., Temple University.
- ARCHIBALD MACINTOSH*Vice President and Director of Admissions*
B.A., Haverford College; M.A., Columbia University; Ph.D., University of
Pennsylvania; LL.D., Haverford College.
- LEGH WILBER REID*Professor of Mathematics, Emeritus*
S.B., Virginia Military Institute; A.B., Johns Hopkins University; S.M., Prince-
ton University; Ph.D., University of Göttingen.
- FREDERIC PALMER, JR.*Professor of Physics, Emeritus*
A.B., A.M. and Ph.D., Harvard University.
- LEON HAWLEY RITTENHOUSE*Professor of Engineering, Emeritus*
M.E., Stevens Institute of Technology.
- DEAN PUTNAM LOCKWOOD*Professor of Latin and Librarian, Emeritus*
A.B., A.M. and Ph.D., Harvard University.
- JOHN OTTO RANTZ*Instructor in Engineering, Emeritus*
- ABRAHAM PEPINSKY*Professor of Psychology, Emeritus*
A.B. and A.M., University of Minnesota; Ph.D., State University of Iowa.
- EDWARD DOUGLAS SNYDER*Professor of English, Emeritus*
A.B., Yale University; A.M. and Ph.D., Harvard University.
- LEVI ARNOLD POST*Professor of Greek, Emeritus*
B.A., M.A., and L.H.D., Haverford College; A.M., Harvard University; B.A.
and M.A., Oxford University.
- MARTIN FOSS*Lecturer in Philosophy, Emeritus*
LL.D., University of Jena.
- JOHN WILLIAM FLIGHT*Professor of Biblical Literature, Emeritus*
A.B., Hope College; A.M., Yale University; B.D. and Ph.D., Hartford Theo-
logical Seminary.
- ALFRED JULIUS SWAN*Professor of Music, Emeritus*
B.A. and M.A., Oxford University.
*(The active members of the Faculty are arranged in the order of their
appointment to their present rank. Two or more appointed in
the same year are listed in alphabetical order.)*
- DOUGLAS VAN STEERE*T. Wistar Brown Professor of Philosophy*
S.B., Michigan State College; B.A. and M.A., Oxford University; A.M. and
Ph.D., Harvard University; D.D., Lawrence College; L.H.D., Oberlin College.
- *CLETUS ODLA OAKLEY*Professor of Mathematics*
S.B., University of Texas; S.M., Brown University; Ph.D., University of Illinois.
- RALPH MILLARD SARGENT*F. B. Gummere Professor of English*
A.B., Carleton College; Ph.D., Yale University.
- *HOWARD MORRIS TEAF, JR.*Professor of Economics*
B.S. in Economics, M.A. and Ph.D., University of Pennsylvania.
- IRA DE AUGUSTINE REID*Professor of Sociology*
A.B. and LL.D., Morehouse College; A.M., University of Pittsburgh; Ph.D.,
Columbia University.
- HARRY WILLIAM PFUND*Professor of German*
B.A., Haverford College; A.M. and Ph.D., Harvard University.
- *HERMAN MILES SOMERS*Professor of Political Science*
S.B. and Ph.M., University of Wisconsin; A.M. and Ph.D., Harvard University.
- ROY EARL RANDALL*Professor of Physical Education*
Ph.B., Brown University. *and Director of Intercollegiate Athletics*
- *WILLIAM ATTICH REITZEL*Professor of Social Science*
B.S., Haverford College; B.A. and M.A., Oxford University.

*Absent on leave, 1960-61.

- **THOMAS EDWARD DRAKE**.....*Professor of American History*
A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University.
- LOUIS CRAIG GREEN**.....*Professor of Astronomy*
A.B., A.M. and Ph.D., Princeton University.
- WILLIAM EDWARD CADBURY, JR.**.....*Professor of Chemistry*
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.
- RUSSELL RAYMOND WILLIAMS, JR.**.....*Professor of Chemistry*
B.A., University of Buffalo; Ph.D., Stanford University.
- *HOWARD COMFORT**.....*Professor of Classics*
B.A., Haverford College; A.M. and Ph.D., Princeton University.
- WILLIAM DOCHERTY, JR.**.....*Professor of Physical Education*
S.B., Temple University. *and Director of Physical Education*
- CLAYTON WILLIAM HOLMES**.....*Professor of Engineering*
B.S. in M.E. and M.E., University of New Hampshire; M.A., Haverford College.
- *JOHN ASHBY LESTER, JR.**.....*Professor of English*
B.S., Haverford College; A.M. and Ph.D., Harvard University.
- HOLLAND HUNTER**.....*Professor of Economics*
B.S., Haverford College; A.M. and Ph.D., Harvard University.
- WALLACE TREVETHIC MACCAFFREY**.....*Walter D. and Edith M. L. Scull*
Professor of English Constitutional History
A.B., Reed College; A.M. and Ph.D., Harvard University.
- CRAIG RINGWALT THOMPSON**.....*Professor of English and History*
A.B., Dickinson College; A.M. and Ph.D., Princeton University.
- JAMES D. EBERT**.....*Visiting Professor of Biology*
A.B., Washington and Jefferson College; Ph.D., Johns Hopkins University.
- PAUL J. MISHKIN**.....*Visiting Professor of Political Science*
A.B. and LL.B., Columbia University.
- THEODORE BRINTON HETZEL**.....*Associate Professor of Engineering*
B.S., Haverford College; B.S. in M.E., University of Pennsylvania; M.S. and Ph.D., Pennsylvania State University.
- MANUEL JOSE ASENSIO**.....*Associate Professor of Romance Languages*
B.A., University of Granada; M.A. and Ph.D., University of Pennsylvania.
- FRANCIS HOWARD PARKER**.....*Associate Professor of Philosophy*
A.B., Evansville College; A.M., Indiana University; Ph.D., Harvard University.
- FRANCES deGRAAFF**.....*Associate Professor of Russian*
Ph.D., University of Leyden. *on joint appointment with Bryn Mawr College*
- MARCEL MARC GUTWIRTH**.....*Associate Professor of French*
A.B., Columbia College; A.M. and Ph.D., Columbia University.
- *JOHN ASHMEAD, JR.**.....*Associate Professor of English*
A.B., A.M. and Ph.D., Harvard University.
- WILLIAM HEARTT REESE**.....*Associate Professor of Music and Director*
of Glee Club and Orchestra on joint appointment with Bryn Mawr College
A.B., Amherst College; M.A., Columbia University; Ph.D., University of Berlin.
- *AARON LEMONICK**.....*Associate Professor of Physics*
B.A., University of Pennsylvania; A.M. and Ph.D., Princeton University.
- *ARIEL GIDEON LOEWY**.....*Associate Professor of Biology*
B.S. and M.S., McGill University; Ph.D., University of Pennsylvania.
- FAY AJZENBERG-SELOVE**.....*Associate Professor of Physics*
B.S.E., University of Michigan; M.S. and Ph.D., University of Wisconsin.
- FRANK JOSEPH QUINN**.....*Associate Professor of English Literature*
B.A. and M.A., Oxford University.
- *ROBERT IRVING WALTER**.....*Associate Professor of Chemistry*
B.S., Swarthmore College; M.A., Johns Hopkins University; Ph.D., University of Chicago.

*Absent on leave, 1960-61.

**Absent on leave second semester.

- *DOUGLAS HAMILTON HEATH.....*Associate Professor of Psychology*
A.B., Amherst College; A.M. and Ph.D., Harvard University.
- BRADFORD COOK.....*Associate Professor of French*
B.A., Williams College; Ph.D., Yale University.
- PHILIP WILKES BELL.....*Associate Professor of Economics*
A.B., Princeton University; A.M., University of California; Ph.D., Princeton University.
- ALFRED DIAMANT.....*Associate Professor of Political Science*
A.B. and M.A., Indiana University; Ph.D., Yale University.
- A. PAUL HARE.....*Associate Professor of Sociology*
B.A., Swarthmore College; M.A., University of Pennsylvania; Ph.D., University of Chicago.
- PETER BACHRACH.....*Visiting Associate Professor of Political Science*
A.B., Reed College; M.A. and Ph.D., Harvard University.
- EARL HAMPTON PRITCHARD.....*Director of Asian Seminar and Visiting Associate Professor of Asian History on joint appointment with Bryn Mawr College and Swarthmore College*
B.A., Washington State College; A.M., University of Illinois; D.Phil., Oxford University.
- THOMAS H. WOOD.....*Visiting Associate Professor of Physics*
B.S., University of Florida; Ph.D., University of Chicago.
- JOHN RICHARD CARY.....*Assistant Professor of German*
B.A., Haverford College; Ph.D., Johns Hopkins University.
- *EDGAR SMITH ROSE.....*Assistant Professor of English*
A.B., Franklin and Marshall College; A.M. and Ph.D., Princeton University.
- MELVIN SANTER.....*Assistant Professor of Biology*
B.S., St. John's University; M.S., University of Massachusetts; Ph.D., George Washington University.
- ALFRED WANNER SATTERTHWAITE.....*Assistant Professor of English*
A.B., A.M. and Ph.D., Harvard University.
- HARMON CRAIG DUNATHAN.....*Assistant Professor of Chemistry*
B.A., Ohio Wesleyan University; M.S. and Ph.D., Yale University.
- IRVING FINGER.....*Assistant Professor of Biology*
B.A., Swarthmore College; Ph.D., University of Pennsylvania.
- COLIN FRANCIS MACKAY.....*Assistant Professor of Chemistry*
B.S., University of Notre Dame; M.S. and Ph.D., University of Chicago.
- PAUL J. R. DESJARDINS.....*Assistant Professor of Philosophy*
B.A., M.A. and Ph.D., Yale University.
- GEORGE ALEXANDER KENNEDY.....*Assistant Professor of Classics*
A.B., Princeton University; A.M. and Ph.D., Harvard University.
- JAMES O. BROOKS.....*Assistant Professor of Mathematics*
B.A., Oberlin College; M.A., University of Michigan.
- JOHN HERBERT DAVISON.....*Assistant Professor of Music*
B.A., Haverford College; A.M., Harvard University; Ph.D., University of Rochester.
- JAY HENRY GELLENS.....*Assistant Professor of English*
B.A., Kenyon College; M.A. and Ph.D., Yale University.
- JAMES WINTHROP HARPER.....*Assistant Professor of English*
B.A., Knox College; M.A., Stanford University; Ph.D., Princeton University.
- ERNEST JOSEPH PRUDENTE.....*Assistant Professor of Physical Education*
B.S. in Ed., University of Pennsylvania.
- HOWARD BENEDICT RANKEN.....*Assistant Professor of Psychology*
B.S., Yale University; Lic.-ès-L., University of Paris; Ph.D., Columbia University.
- LOUIS SOLOMON.....*Assistant Professor of Mathematics*
A.B. and Ph.D., Harvard University.
- JOHN PHILIP SPIELMAN, JR.....*Assistant Professor of History*
B.A., Montana State University; M.A. and Ph.D., University of Wisconsin.

*Absent on leave, 1960-61.

- HARVEY GLICKMAN.....*Assistant Professor of Political Science*
A.B., Princeton University; A.M. and Ph.D., Harvard University.
- NORMAN J. HUDAK.....*Assistant Professor of Chemistry*
B.A., DePauw University; Ph.D., Cornell University.
- DAVID ROSENHAN.....*Assistant Professor of Psychology*
A.B., Yeshiva College; A.M. and Ph.D., Columbia University.
- EUGENE SMOLENSKY.....*Assistant Professor of Economics*
A.B., Brooklyn College; M.A., American University.
- LEONARD N. BIDWELL.....*Visiting Assistant Professor of Mathematics*
B.A., M.A. and Ph.D., University of Pennsylvania.
- GUY MATTISON DAVENPORT, JR.....*Visiting Assistant Professor of English*
B.S., Duke University; B.Litt., Oxford University.
- ROBERT L. DEHAAN.....*Visiting Assistant Professor of Biology*
B.A., M.A. and Ph.D., University of California at Los Angeles; M.A., University of Amsterdam.
- CHARLES E. GILBERT.....*Visiting Assistant Professor of Political Science*
B.A., Haverford College; Ph.D., Northwestern University.
- VICTOR GOUREVITCH.....*Visiting Assistant Professor of Philosophy*
A.B., University of Wisconsin; Ph.D., University of Chicago.
- FRANK JOHN GROTEN, JR.....*Visiting Assistant Professor of Classics*
A.B., A.M. and Ph.D., Princeton University.
- GEORGE L. HAGEN.....*Visiting Assistant Professor of Biology*
B.S. and B.A., Moorhead State College; M.A., Miami University; Ph.D., Rutgers University.
- ROBERT L. HORN.....*Visiting Assistant Professor of Biblical Literature*
B.A., Earlham College.
- ALBURT M. ROSENBERG.....*Visiting Assistant Professor of Biology*
A.B., Harvard College; M.S., University of Florida; Ph.D., University of Pennsylvania.
- RUSSELL F. WEIGLEY.....*Visiting Assistant Professor of History*
A.B., Albright College; M.A. and Ph.D., University of Pennsylvania.
- HOMER B. GOLDBERG.....*Visiting Assistant Professor of English*
A.B. and A.M., University of Chicago.
- THOMAS ALONZO BENHAM.....*Lecturer in Physics*
B.S. and M.S., Haverford College.
- CLARENCE EVAN PICKETT.....*Lecturer in Christian Ethics*
A.B., Penn College; B.D., Hartford Theological Seminary; LL.D., Haverford College; LL.D., Earlham College.
- HENRY JOEL CADBURY.....*Lecturer in Quakerism*
B.A. and Litt.D., Haverford College; A.M. and Ph.D., Harvard University; D.D., University of Glasgow; LL.D., Whittier College; LL.D., Swarthmore College; L.H.D., Howard University.
- JOACHIM MAASS.....*Lecturer in German Literature*
Freie Akademie der Künste, Hamburg.
- JACQUES ANDRE MARIES.....*Lecturer in French*
Lic.-ès-L., University of Toulouse; Agr. de l'Univ, University of Paris.
- URSULA SANTER.....*Lecturer in Biology*
B.A., Swarthmore College; M.S. and Ph.D., Yale University.
- SAMUEL S. MCNEARY.....*Lecturer in Mathematics*
B.S., Haverford College; M.S., University of Pennsylvania.
- OTTOMAR RUDOLF.....*Instructor in German*
B.A., Manhattan College

Special Appointments

- FORREST DUANE COMFORT.....*Counselor*
A.B., Penn College; M.A., Haverford College; Ed.M., Harvard University.
- ROBERT HAWES BUTMAN.....*Director of Drama*
on joint appointment with Bryn Mawr College
B.A. and M.A., University of North Carolina.

NORMAN BARGE BRAMALL.....*Assistant in Physical Education*
 RAYMOND TAYLOR BRAMALL.....*Assistant in Physical Education*
 B.S., M.S. and Ed.D., University of Pennsylvania.
 NORMAN MONTGOMERY WILSON.....*Assistant in Engineering*
 FRITZ JANSCHKA.....*Artist in Residence, Bryn Mawr College*
 Akademie der Bildenden Künste, Vienna.
 ELIZABETH UFFORD GREEN.....*Research Associate in Biology*
 A.B., M.A. and Ph.D., Bryn Mawr.
 ANNE RAMSAY SOMERS.....*Research Associate in Political Science*
 B.A., Vassar College.
 PHILIP ALAN TRUDINGER.....*Research Associate in Biology*
 B.Sc. and Ph.D., Adelaide University.
 DAVID SHOEMAKER RICHIE.....*Adviser in Work Camp Program*
 B.S., Haverford College.
 WALLACE KELLY.....*Sculptor*
 SAMUEL M. V. TATNALL.....*Assistant in Physics*
 B.A., Haverford College.

Administration

HUGH BORTON.....*President*
 B.S., Haverford College; A.M., Columbia University; Ph.D., University of Leyden;
 LL.D., Temple University.
 ARCHIBALD MACINTOSH.....*Vice President and Director of Admissions*
 B.A., Haverford College; M.A., Columbia University; Ph.D., University of Penn-
 sylvania; LL.D., Haverford College.
 WALTER C. BAKER.....*Vice President for Development*
 B.A., Haverford College.
 WILLIAM EDWARD CADBURY, JR.....*Dean*
 B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.
 ALDO CASELLI.....*Comptroller and Business Manager*
 D.S.E. and C., University of Naples.
 CRAIG RINGWALT THOMPSON.....*Librarian*
 A.B., Dickinson College; A.M. and Ph.D., Princeton University.
 THOMAS EDWARD DRAKE.....*Curator of the Quaker Collection*
 A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University.
 LOUIS CRAIG GREEN.....*Director of the Strawbridge Memorial Observatory*
 A.B., A.M. and Ph.D., Princeton University.
 MRS. EDYTHA M. CARR.....*Registrar*
 MRS. MIRIAM R. NUGENT.....*Director of Food and Housing*
 B.S., New York University.
 BENNETT SMEDLEY COOPER.....*Alumni Secretary and Assistant to the President*
 B.S., Haverford College.
 CHARLES PERRY.....*Associate Director for Development*
 B.A., Haverford College; M.S.S., Bryn Mawr College.
 WILLIAM WEBSTER AMBLER.....*Associate Director of Admissions*
 B.S., Haverford College.
 RICHARD D. KUBIK.....*Director of Information*
 GERTRUDE MANN WONSON.....*Secretary to the Director of Admissions*
 B.S., Simmons College.
 MRS. KATHARINE M. CARTER.....*Secretary to the President*
 A.B., Wilson College.
 MRS. FLORENCE N. ANDREWS.....*Secretary to the Dean*

Medical Staff

WILLIAM WOLTER LANDER.....*Physician*
 B.S., Ursinus College; M.D., University of Pennsylvania.
 PETER G. BENNETT.....*Psychiatrist for the College*
 M.D., University of Pennsylvania.
 BERTHA KRATZ.....*Resident Nurse*
 R.N., Stetson Hospital.

Visiting Faculty on The Philips Fund

1959-1960

- JOHN ATKINSON, Ph.D.
Associate Professor of Psychology, University of Michigan.
- R. E. BILLINGHAM, Ph.D.
Wistar Institute of Anatomy and Biology.
- JACOB BRONOWSKI, Ph.D.
Author, Scientist, Director of British Coal Research Establishment.
- ALAN BULLOCK, M.A. (Oxon.)
Master, St. Catherine's College, Oxford.
- MELVIN COHN, Ph.D.
Professor of Biochemistry, Stanford University.
- JAMES D. EBERT, Ph.D.
Director, Department of Embryology, Carnegie Institution of Washington.
- HENRY EYRING, Ph.D.
Professor of Chemistry, Dean, University of Utah.
- WILHELM GREWE, J.D.
Ambassador of the Federal Republic of Germany to the United States.
- ALVIN H. HANSEN, Ph.D.
Emeritus Professor of Economics, Harvard University.
- JACK HINE, Ph.D.
Professor of Chemistry, Georgia Institute of Technology.
- ROBERT HOLT, Ph.D.
Director, Research Center for Mental Health, New York University.
- ELVIN A. KABAT, Ph.D.
Professor of Microbiology, Columbia University.
- CHARLES KITTEL, Ph.D.
Professor of Physics, University of California.
- CYRUS LEVINTHAL, Ph.D.
Professor of Biophysics, Massachusetts Institute of Technology.
- HANS NEURATH, Ph.D.
Professor of Biochemistry, University of Washington School of Medicine.
- ABRAHAM PAIS, Ph.D.
Institute for Advanced Study, Princeton, N. J.
- W. K. H. PANOFSKY, Ph.D.
Professor of Physics, Stanford University.
- LEO POSTMAN, Ph.D.
Professor of Psychology, University of California.
- HANS RADEMACHER, Ph.D.
Professor of Mathematics, University of Pennsylvania.
- CARL ROGERS, Ph.D.
Professor of Psychology and Psychiatry, University of Wisconsin School of Medicine.
- IRWIN SIZER, Ph.D.
Chairman of the Biology Department, Massachusetts Institute of Technology.
- SIR CHARLES P. SNOW, B.A. (Cantab)
Novelist, Scientist (British Civil Service Commissioner).
- TRACY M. SONNEBORN, Ph.D.
Professor of Zoology, Indiana University.
- GERHARD STUVEL, Ph.D.
Counsellor, Chief of National Accounts Division, Organization for European Economic Cooperation.
- ALBERT TYLER, Ph.D.
Professor of Embryology, California Institute of Technology.
- VICTOR F. WEISSKOPF, Ph.D.
Professor of Physics, Massachusetts Institute of Technology.

Academic Council

The Academic Council consists of the President as Chairman, three elected divisional representatives of the Faculty, one to be elected yearly, the two Faculty representatives to the Board, Vice President MacIntosh, and the Dean, as Secretary of the Council. The Academic Council: 1) considers matters of college policy referred to it by the President and by members of the Council, 2) appoints the standing faculty committees, and 3) makes recommendations to the President on Faculty appointments, reappointments, promotions, and tenure in accordance with accepted procedures. The elected members of the Academic Council for the academic year beginning September 1, 1960 are Mr. Hunter (Social Sciences), Mr. Williams (Natural Sciences), and Mr. Gutwirth (Humanities).

Standing Committees of the Faculty

Academic Standing: MR. FINGER, *Chairman*

MESSRS. QUINN, STEERE

Admissions: MR. MACCAFFREY, *Chairman*

MRS. SELOVE, MR. MACKAY

Arts and Service: MR. HETZEL, *Chairman*

MR. BROOKS

Curriculum and College Program: MR. KENNEDY, *Chairman*

MESSRS. BELL, PARKER, GREEN

Faculty Compensation and Medical Plans: MR. BELL, *Chairman*

MESSRS. CADBURY, DESJARDINS, HETZEL

Faculty Research and Study: MR. REID, *Chairman*

MESSRS. MACKAY, SATTERTHWAITE, DIAMANT, SOLOMON, DAVISON

Honors, Fellowships and Prizes: MR. PFUND, *Chairman*

MRS. SELOVE, MR. COOK

Library: MR. SANTER, *Chairman*

MESSRS. SPIELMAN, SARGENT, GUTWIRTH

Phillips Visitors: MR. CARY, *Chairman*

MESSRS. SANTER, RANKEN

The President and Vice President MacIntosh are ex officio members of all committees. The Vice President for Development will attend such committee meetings as he considers necessary for the proper functioning of his office.

THE COLLEGE PROGRAM

Aims and Objectives

AS A QUAKER institution, Haverford College stresses three interrelated elements in its educational philosophy. These are a high standard of academic performance within a broadly-based, liberal arts curriculum, the individual nature of this education, and the importance of personal ideals and moral values. Thus, while the College places a high value on scholarship and intellectual expertness, it emphasizes simultaneously the development of sound ethical judgments based on a clear perception of individual and social aims.

A selective admissions policy brings to Haverford a diverse group of young men of high scholastic ability. The personality and character of candidates are important considerations in their selection. In his academic work, each student is encouraged and expected to perform at a level consistent with his abilities. The more capable the student, the more is expected of him. A Haverford student will soon discover the high value which the College attaches to intellectual integrity, a search for truth wherever it leads, independence of judgment, an imaginative grasp of the interrelationship of the branches of knowledge, and a capacity to carry out independent work. The requirements for graduation are designed to develop the ability to learn, to understand, and to reach sound conclusions, on the basis of study in each of the broad fields of human knowledge as well as by concentration in a single field.

In an atmosphere which demands high academic achievement of its students and which values and cherishes freedom of thought, Haverford College can be justly proud of the quality and ability of its faculty. Individually and collectively, their teaching skill, their enthusiasm for scholarly research, and their devotion to learning provide a continuous challenge and inspiration to their students.

The College believes that the desirable qualities cultivated in the classroom and laboratory can be supplemented and strengthened by a sound program of non-academic courses, athletics, and extracurricular activities. The Arts and Service non-credit courses are designed to encourage interest in constructive community service and to develop appreciation of beauty and certain creative skills. Athletic activities, including intramural and intercollegiate contests, promote physical fitness and coordination and provide opportunity for all students to experience the benefits of wholesome competition and team play. A variety of campus organizations allow each student to join with others in pursuing common interests. The important role of the honor system in student government emphasizes the value which the community places on individual responsibility.

Haverford College believes that while the mastery of facts, techniques, and certain skills is important, it must be coupled with the desire and moral capacity to use them for worthwhile ends. It will continue to lay stress on the formation of moral values and personal ideals, not insisting on any set beliefs, but cherishing freedom of religious beliefs and of conscience. Such growth is fostered by the weekly Collections, or assemblies, where leaders from various walks of life share with the undergraduates their diverse experiences and points of view. In addition, outstanding scholars frequently visit the campus for lectures or special classes, and have extensive personal contacts with students. In the mid-week Fifth-Day Meeting, a traditional Quaker meeting for worship, there is opportunity for the Haverford College student to learn from the meditative silence or from a spoken message how to delineate and cultivate the highest moral principles and to see himself in his proper relation to his fellows and to life as a whole.

History

HAVERFORD COLLEGE was founded in 1833 as the first college established by members of the Society of Friends in the United States. It was organized as an institution which would provide an "enlarged and liberal system of instruction" to meet the intellectual needs of "Friends on this continent," offering a course of instruction in science, mathematics, and classical languages "as extensive as given in any literary institution in this country." In those days it was modestly called Haverford School, but the intent was clear to create a center that would give to Friends the kind of education which other young Americans were receiving in the best colleges.

The choice of the site for the College exercised its founders for three years; it was settled by the purchase of 198 acres of rolling farmland in the center of the Welsh Tract, a large area originally set apart by William Penn for Quaker immigrants from Wales. Today the campus (increased to 216 acres) is a beautiful area of fields and woodlands, although the Philadelphia suburbs have spread out along the Main Line to Haverford and beyond.

In its first forty years, the College gained in maturity while establishing policies and practices to make effective the ideals of its founders. In 1847 it opened its doors to young men who were not members of the Society of Friends, and in 1856 it became a degree-granting institution, with a tradition of high scholarship which has continued unshaken.

President Isaac Sharpless, 1887-1917, led Haverford College into the forefront of American collegiate institutions. His many-sided genius enabled him

to gather and hold together a faculty of extraordinary capacity. During the administration of William Wistar Comfort from 1917-1940 the student body increased from two hundred to over three hundred, and the College continued its emphasis on intellectual achievement combined with concern for the physical and moral development of its undergraduates. Felix Morley, a Rhodes Scholar of the Class of 1915, was President during the difficult years of World War II. Gilbert White, his successor, took office in 1946 and continued until 1955, at which time he retired from the Presidency to head the Department of Geography at the University of Chicago. Hugh Borton, of the Class of 1926, was inaugurated as President October 19, 1957.

Resources

Over the years Haverford's campus has been improved by the addition of dormitories and other buildings to supplement Founders Hall, which dates from the inception of the College, and Alumni Hall, built in 1856, which now forms a part of the Library. Except for about sixty day students, all the students at Haverford live in dormitories on the campus or in houses immediately adjacent to it. Similarly, a large portion of the Faculty live in houses and apartments owned by the College and situated on the campus. This is helpful in establishing an atmosphere of community life and in encouraging personal contacts between student and teacher.

The dormitories include Founders Hall, Barclay, built in the nineteenth century, Lloyd, completed in 1926, and Morris E. Leeds Hall, which was opened in the Fall of 1955. The Spanish, German and French Houses, established in recent years, give students interested in these studies an opportunity to live in close association with others specializing in these fields.

Chase Hall, containing classrooms, the Lyman Beecher Hall Chemistry Building, and Sharpless Hall, containing the physics and biology laboratories, date from President Sharpless's administration, as do the Haverford Union, used for many College activities, Roberts Hall, the administration building, and the Morris Infirmary. The Gymnasium, built in 1900, was supplemented in the Fall of 1957 by the Alumni Field House, which affords capacious facilities for indoor athletics and already has proved its value in Haverford's extensive program for physical education.

The endowment and trust funds of Haverford College, which currently have a book value of over \$12,000,000, together with the support given to the College annually by its Alumni and other friends, has enabled it to maintain a superior faculty of unusual size in proportion to the number of students.

Enrollment, currently limited to approximately 450, is kept low so that teaching may continue on the basis of personal acquaintance in a unified community as it has throughout the history of the College.

Haverford Station on the Pennsylvania Railroad, between Ardmore and Bryn Mawr, is twenty minutes from downtown Philadelphia. The campus fronts on the famous Lancaster Pike (U. S. 30), a few miles from the Pennsylvania Turnpike. It is approximately two hours train journey from Haverford to New York or Baltimore and less than three hours to Washington. Philadelphia's Orchestra, its museums and libraries, its scientific laboratories and industrial plants are all easily accessible to Haverford students, who can make full use of the cultural opportunities of a city while enjoying the beauty of a college campus in a quiet suburban setting.

Admission

THE POLICY of Haverford College is to admit to the Freshman class those applicants who, in the opinion of the Committee on Admissions, are best qualified to profit by the opportunities which the College offers and at the same time to contribute to undergraduate life. Due regard is given not only to scholarly attainment, as shown by examination and by school record, but also to character, personality, and interest and ability in important extra-curricular activities.

Whenever practicable, the College will expect the candidate to have a personal interview with the Director of Admissions or another administrative officer. Every applicant should realize that, in view of the limited enrollment, he is entering a competition for admission to a carefully selected and comparatively small student organization. On the basis of all information available — College Board reports, school record, class standing, evidence touching on character and personality — the application will be accepted or rejected, and the decision of the Committee on Admissions is final. Preference will be given to those with superior records and credentials rather than to those with mere priority of application.

Students who are accepted will be admitted without conditions. Those who on entrance show marked proficiency in certain subjects will be permitted to take courses usually not open to Freshmen; in such cases, however, the number of courses required for a degree will not be diminished.

Each applicant for admission must take the Scholastic Aptitude Test, three Achievement Tests, and the Writing Sample of the College Entrance Examination Board. The English Achievement Test is required, but a candidate may choose the other two tests. If there is any doubt about the choice of the two tests, he should consult the Director of Admissions. Applications involving divergence from the normal procedure must be discussed in detail with the Director of Admissions.

In addition, the applicant must submit his school record and a certificate of character signed by his school principal. The school certificate must show satisfactory attainment in 15 units* of work. The preparatory course must include four years of English, at least a year and a half of Algebra and one year of Geometry (demonstrative or analytic or both), and three years of a foreign language. The remaining units will be drawn from laboratory science, social science, history, and additional mathematics and language.

* A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

A candidate may offer an elective in a subject not usually listed, provided he shows proficiency which indicates an amount of study and intellectual effort commensurate with that required in other subjects. The subject chosen must have the approval of the Admissions Committee.

Applications for admission should be submitted early in the candidate's senior year. The application must be accompanied by a check or money order for \$10.00 drawn to the order of Haverford College to cover the application fee, which is not refundable. Upon receipt of the application, the College will send a school record form to the candidate for completion by the school officials.

Candidates are encouraged to visit the College for an interview. The Office of Admissions is open from 9:00 a.m. until 4:30 p.m. on weekdays and from 9:00 a.m. until noon on Saturdays. The office is closed on Saturdays during the summer. Arrangements should be made in advance for an appointment.

Information Concerning College Entrance Board Tests

The College Entrance Examination Board will offer examinations on each of the following dates during the academic year 1960-61.

- | | |
|----------------------------|---|
| Saturday, December 3, 1960 | — Scholastic Aptitude Test, Achievement Tests, and Writing Sample |
| Saturday, January 14, 1961 | — Scholastic Aptitude Test and Writing Sample |
| Saturday, February 4, 1961 | — Scholastic Aptitude Test only |
| Saturday, March 18, 1961 | — Scholastic Aptitude Test and Achievement Tests |
| Saturday, May 20, 1961 | — Scholastic Aptitude Test and Achievement Tests |
| Wednesday, August 9, 1961 | — Scholastic Aptitude Test and Achievement Tests |

8:45 A.M.—Scholastic Aptitude Test (Verbal and Mathematical Sections)

1:45 P.M.—Achievement Tests—Candidates may not take more than three of the following:

- | | |
|---------------------|--------------------------|
| English Composition | Advanced Mathematics |
| Social Studies | Biology |
| French | Chemistry |
| German | Intermediate Mathematics |
| Latin | Physics |
| Spanish | |

The *Bulletin of Information*, obtainable without charge from the College Entrance Examination Board, contains rules regarding applications, fees, reports, and the conduct of the tests; lists of examination centers; and an application blank bound in. This application blank may be used for any College Board administration. Additional application blanks will be available at the schools for students needing more than one. Separate booklets describing the tests and giving sample questions and answers will be sent to each registered candidate at no additional cost.

Candidates should make application by mail to the College Entrance Examination Board. Students who wish to take the examinations in any of the following States, territories, or foreign areas should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 27896, Los Angeles 27, California:

Alaska	Nevada	Province of Alberta
Arizona	New Mexico	Province of British Columbia
California	Oregon	Province of Manitoba
Colorado	Utah	Province of Saskatchewan
Hawaii	Washington	Republic of Mexico
Idaho	Wyoming	Australia
Montana	Northwest Territory	Pacific Islands, including
	Yukon Territory	Japan and Formosa

Candidates applying for examination in any State or foreign area not given above should write to College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Each application submitted for registration must be accompanied by the examination fee. A detailed schedule of fees follows:

Scholastic Aptitude Test.....	\$4.00
One, two or three hours of afternoon tests.....	6.00
Writing Sample only.....	2.00

There is no reduced fee for those taking morning and afternoon tests at one administration.

All applications and fees should reach the appropriate office of the Board not later than the dates specified on the next page:

For examination centers located:
in the United States, *in Europe, Asia,*
Canada, Alaska, Hawaii, *Africa, Central and*
the Canal Zone, Mexico, *South America, and*
or the West Indies *Australia*

Date of Tests

December 3, 1960
 January 14, 1961
 February 4, 1961
 March 18, 1961
 May 20, 1961
 August 9, 1961

November 5
 December 17
 January 7
 February 18
 April 22
 July 12

October 15
 November 26
 December 17
 January 28
 April 1
 June 21

Applications received after these closing dates will be subject to a penalty fee of three dollars in addition to the regular fee.

Candidates are urged to send in their applications and fees as early as possible, preferably at least several weeks before the closing date, since early registration allows time to clear up possible irregularities which might otherwise delay the issue of reports. Applications received at a Board office later than two weeks prior to the date of the examination cannot be guaranteed acceptance. No candidate will be permitted to register with the supervisor of an examination center at any time. Only properly registered candidates, holding tickets of admission to the centers at which they present themselves, will be admitted to the tests. Requests for transfer of examination centers cannot be considered unless these reach the Board offices two weeks prior to the date of the examination or earlier.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The college will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports upon their tests from the Board.

Transfer Students

A few transfer students are accepted each year. Since each applicant for transfer is considered as a special case, no fixed requirements are specified. An undergraduate who is applying for transfer should provide the Admissions Office with a full list of his accepted preparatory subjects and a list of his college courses with grades received. If he has taken College Entrance Board Tests, he should arrange to have these scores sent to Haverford. He should submit a letter of recommendation from a responsible official of the college last attended. If these credentials appear satisfactory, the applicant will be invited to the College for an interview.

Advanced Standing

Students in high school who have done advanced work in one or more courses may take the Advanced Placement Tests given by the College Entrance Examination Board each May to determine eligibility for advanced placement or credit in college courses.

Financial Arrangements

Rooms

ENTERING FRESHMEN are assigned the rooms available after the other classes have made their choice. New students will be notified of the rooms assigned to them by means of a list available in Roberts Hall. The choice of rooms by other students is governed by published rules.

A deposit of \$35 is required of all new students at the time they are notified of their admission. A similar deposit is required also of those students who have not been in attendance at the College during the immediately preceding semester. This amount will be deducted from the bill for the following year. If the student fails to present himself at the beginning of the semester for which he has been enrolled, the deposit will be forfeited.

Students are expected to treat College property with the same consideration as their own. A student is held financially responsible for any damage to his room, and any damage wilfully done will be sufficient reason for requesting withdrawal from the College.

Expenses

The tuition charge for all regular students is \$1225.00 for the academic year. Tuition for special students is \$175.00 per course, per semester. The board is \$520.00, and room rent \$280.00 per year. The payment of a Unit Fee of \$125.00 per year makes it possible for the student to participate in any campus organization without an additional fee.

The room charges include heat, electric light, weekly service, and the use of necessary bedroom furniture, i.e., a bureau, table, chair, study lamp, and a bed, the linen for which is furnished and laundered by the College. Students will supply their own study furniture, blankets, and towels.

The College requires that bills rendered August 15 and January 15 for the following semester's tuition, board, room, unit fee, and deposits be paid in full before the beginning of the semester.

In order to avoid last minute congestion, it is suggested that bills be paid by mail in advance.

A non-refundable fee of \$10.00 is payable when application for admission is presented.

The Unit Fee includes the following: Student activities fee, laboratory fees,

health fee, accident insurance (a maximum of \$500.00 within one year of each accident), diploma, and psychological tests when required by the College.

When a special diet is required for medical reasons, and approved by the College Physician, a charge of \$1.50 weekly will be made, but this charge may be increased if the special foods required are unusually expensive.

The College requires Freshmen to pay a fee of \$20.00 toward the cost of the orientation week.

The College requires a \$100.00 deposit to cover the cost of books and any other incidental charges which may arise during the school year. At intervals during the year, a bill for the actual charges made will be sent to the student. If this bill, or any other indebtedness, is not paid by the end of the semester, credits will not be granted for the work performed. Any unspent balance is refunded at the end of the academic year.

No reduction or refund of the tuition charge will be made after the first two weeks of any semester. If a student withdraws before the completion of the first two weeks, there will be a complete refund of his tuition. In case of illness or absence for any reason from the College, for four weeks or more, there will be a prorated refund of board. In case of withdrawals at any time, there will be no reduction of room rent for the semester unless the same room is re-rented, in which case the withdrawn occupant will receive the amount paid to the College by the new occupant. The unit fee cannot be refunded for any reason.

College Responsibility

The College is not responsible for loss due to fire, theft, or any other cause. Students who wish to take out fire insurance may apply for information at the Office of the Comptroller.

Monthly Payments

Since some parents prefer to pay tuition and other fees in equal monthly instalments during the academic year, we are glad to offer the convenient TUITION PLAN. Various plans are available at the following costs:

One Year Plan —4% greater than the Cash Price

Two Year Plan —5% greater than the Cash Price

Three Year Plan—6% greater than the Cash Price

Four Year Plan —6% greater than the Cash Price

The 2, 3 and 4 year plans include Parent Life Insurance which provides funds for the cost of the remaining period of schooling, if the parent who has signed the contract dies.

THE TUITION PLAN is optional and intended solely as a convenience. Upon request forms will be sent for signature.

Student Loan Fund

A loan fund is available for deserving students, other than members of the Freshman Class and transfer students during their first year, who may require financial assistance during their College course.

For information apply at the Office of the Comptroller.

Student Aid

In addition to the Student Loan Fund and to scholarship help, the College offers students the opportunity to work at standard rates in the Library and as clerical assistants to faculty and administrative officers of the College. Appointments are made from a list of eligible students prepared by Vice-President MacIntosh.

Scholarships

SCHOLARSHIPS are awarded on a basis of merit and individual need. While no scholarship is given for more than one year, it is the practice to continue the scholarship if a student's scholastic performance has been satisfactory and his need remains constant.

No scholarship will be given to a student whose academic standing is unsatisfactory.

No scholarship will be given to a student whose previous college bill has not been paid in full.

Candidates for freshman scholarships must file a financial statement with the College Scholarship Service, Princeton, N. J., before March 15th. Copies of the form to be used may be obtained from the applicant's high school or from the College Scholarship Service.

Students enrolled at the College must submit all preliminary correspondence and applications for undergraduate scholarships for 1961-62, together with supporting letters from parents or guardians, to Vice President MacIntosh before April 15, 1961.

It is assumed that requests for scholarships will not be made by those whose expenses can be met by their parents or from other sources.

CORPORATION AWARDS.—Four Corporation Scholars will be chosen in each class. In the senior, junior and sophomore classes the selection will be made on the basis of the highest general averages for the preceding year. In the freshman class the selection will be made after the May College Board Examinations (see page 24). Each man will be awarded \$50.00 in books. No application for these awards is necessary.

The Endowed Scholarships

It is not necessary for applicants to mention specific scholarships in their applications except in those cases where they meet the special conditions stated for the award.

I. ISAIAH V. WILLIAMSON SCHOLARSHIPS.—Three scholarships, usually awarded to members of the Senior and Junior classes.

II. RICHARD T. JONES SCHOLARSHIP.—One scholarship.

III. EDWARD YARNALL SCHOLARSHIP.—One scholarship.

IV. THOMAS P. COPE SCHOLARSHIP.—One scholarship.

- V. SARAH MARSHALL SCHOLARSHIP.—One scholarship.
- VI. MARY M. JOHNSON SCHOLARSHIP.—One scholarship.
- VII. ISAAC THORNE JOHNSON SCHOLARSHIP.—One scholarship, available for a student of Wilmington College or a member of Wilmington (Ohio) Yearly Meeting of Friends.
- VIII. CASPAR WISTAR MEMORIAL SCHOLARSHIP.—One scholarship available preferably for sons of parents engaged in Christian service (including secretaries of Young Men's Christian Associations) or students desiring to prepare for similar service in America or other countries.
- IX. LOUIS JAQUETTE PALMER MEMORIAL SCHOLARSHIP.—This scholarship is awarded on application, preferably to a member of the Freshman Class who, in the opinion of a committee representing the donors and the President of the College, shall give evidence of possessing the qualities of leadership and constructive interest in student and community welfare which his friends observed in Louis Jaquette Palmer of the Class of 1894.
- X. J. KENNEDY MOORHOUSE MEMORIAL SCHOLARSHIP.—One scholarship, intended for the member of the Freshman Class who shall appear best fitted to uphold at Haverford the standard of character and conduct typified by the late J. Kennedy Moorhouse of the Class of 1900—"a man modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living."
- XI. PAUL W. NEWHALL MEMORIAL SCHOLARSHIP.—One scholarship.
- XII. ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIPS.—Two or more scholarships, preference to be given to "a native of New York or Connecticut who now resides in one of those States."
- XIII. SAMUEL E. HILLES MEMORIAL SCHOLARSHIP.—One scholarship.
- XIV. CLASS OF 1913 SCHOLARSHIP.—One scholarship, preference to be given to descendants of members of the Class of 1913 who may apply and who meet the usual requirements of the College.
- XV. ISAAC SHARPLESS SCHOLARSHIP FUND.—Founded in 1941. Scholarships open to graduates of secondary schools and undergraduates of Haverford College. Awards based upon fulfillment by applicant of requirements used in selection of Rhodes Scholars to the University of Oxford. Awards granted from list submitted to Selection Committee by the Director of Admissions, subject always to final approval by the President of the College; amount variable.

XVI. CLASS OF 1917 SCHOLARSHIP.—One scholarship, preference to be given to descendants of members of the class of 1917 who may apply and who meet the usual requirements of the College.

XVII. THE GEOFFREY SILVER MEMORIAL SCHOLARSHIP.—One scholarship, available to a public school graduate in this general area who may enter Haverford.

XVIII. DANIEL B. SMITH SCHOLARSHIP.—One scholarship, awarded "in the discretion of the Faculty, as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of Benjamin R. Smith, if any such should apply."

XIX. SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND.—Founded November 1, 1954, by bequest of \$75,534.58 from Joseph T. Hilles, Class of 1888, in memory of his mother, Sarah Tatum Hilles, "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; to be awarded by the Managers to "needy and deserving students, and to be known as 'Sarah Tatum Hilles Memorial Scholarships.'"

XX. ELIHU GRANT MEMORIAL SCHOLARSHIP FUND.—Two or more scholarships, established February 2, 1944, by Mrs. Elihu Grant "to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938 a member of the College Faculty. The income from this fund is applied to scholarship assistance to students in Humanistic studies, primarily those specializing in the study of Biblical Literature and Oriental subjects." In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College.

XXI. JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXII. JOSEPH C. AND ANNE N. BIRDSALL SCHOLARSHIPS.—Scholarships, awarded at the discretion of the Faculty "to some student or students preparing for medicine, the selection to be based on character, scholarship and financial need."

XXIII. DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP.—One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIV. CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP.—One scholarship, established June 13, 1946, by Mrs. Madeleine Seabury Febiger in memory of her husband, Christian Febiger, of the Class of 1900. The income of this fund

is applied in paying tuition and other college expenses of worthy, needy students.

XXV. THE W. W. COMFORT FUND.—This fund was established in 1947 by the Haverford Society of Maryland. Grants from this fund are made with the understanding that the recipient shall, at an unstated time after leaving college, repay to the fund the amount which he received while an undergraduate.

XXVI. JONATHAN M. STEERE SCHOLARSHIP FUND.—Established in December 1948 by Jonathan M. Steere, of the Class of 1890. The scholarship is intended primarily for a graduate of Moses Brown School, Providence, Rhode Island, who shall be a member of the Society of Friends.

XXVII. WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP.—Founded in 1949 in memory of William Graham Tyler, of the Class of 1858. Preference shall be given to students from Oskaloosa, Iowa, or from William Penn College, on the basis of character, scholarship and financial need.

XXVIII. MAX LEUCHTER MEMORIAL SCHOLARSHIP.—Established in December, 1949, in memory of Max Leuchter, father of Ben Z. Leuchter, of the Class of 1946. One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XXIX. 1890 MEMORIAL SCHOLARSHIP FUND.—Established by a member of the Class of 1923 in memory of his father, of the Class of 1890, and in recognition of his father's friendship with the members of his class. The income from this fund is to be awarded as a scholarship by the College to a deserving student.

XXX. THE A. CLEMENT WILD SCHOLARSHIP.—Established May 14, 1951, by Mrs. Gertrude T. Wild in memory of her husband, A. Clement Wild, of the Class of 1899. The income from this fund is to be awarded as a scholarship by the College to a deserving student. Preference shall be given to an English exchange student or someone in a similar category.

XXXI. THE CHARLES MCCAUL FUND.—Established in 1951 by Mary N. Weatherly. One or more scholarships which shall be "awarded to students who show special interest in the field of religion and the social sciences."

XXXII. THE CAROLINE CHASE SCHOLARSHIP FUND.—Established December 10, 1951, by Caroline Chase, daughter of Thomas Chase, one-time president of the College. This fund is an expression of Thomas Chase's "enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature."

XXXIII. THE JONATHAN AND RACHEL COPE EVANS FUND.—Founded in 1952 by the children and grandchildren of Jonathan and Rachel Cope Evans. One half of the income of this fund is to be used for scholarships.

XXXIV. THE C. PRESCOTT KNIGHT, JR., SCHOLARSHIP.—Established by the Haverford Society of New England for a New England boy from a New England school. In the award of this scholarship a committee, composed of alumni of the New England area, will consider character and personal qualities as well as the scholastic record and need of the applicant.

XXXV. THE ROY THURLBY GRIFFITH MEMORIAL FUND.—Established in June 1952 by Grace H. Griffith, in memory of Roy Thurlby Griffith, of the Class of 1919. The income from this fund is to be awarded as a scholarship by the College, "preference to be given to boys who have no father and who are in need of financial assistance."

XXXVI. THE MORRIS LEEDS SCHOLARSHIPS.—Established in 1953 by the Board of Managers of the College in memory of Morris E. Leeds, a member of the Class of 1888 and chairman of the Board from 1928 to 1945.

XXXVII. THE CLASS OF 1904 SCHOLARSHIP FUND.—Established June 4, 1954, in commemoration of the fiftieth anniversary of the Class of 1904. The income from this fund, which was contributed by the Class and the families of its deceased members, will provide one scholarship.

XXXVIII. THE WILLIAM MAUL MEASEY TRUST.—Established in 1952 by William Maul Measey, a friend of the College, who has been deeply interested in education and who has wished to help students of high quality in the pursuit of their education.

XXXIX. THE J. HORACE COOK FUND.—Established in 1955 by a bequest under the will of J. Horace Cook, of the Class of 1881, for a scholarship, "one to be awarded each year so that there will be a student in each class receiving his tuition from this fund."

XL. THE INAZO NITOBÉ SCHOLARSHIP FUND.—Established in November 1955 under the will of Anna H. Chace, "the income to be used and applied for the education at Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship."

XLI. THE GIFFORD K. WRIGHT SCHOLARSHIP FUND.—Established in December 1955 in memory of Gifford K. Wright, of the Class of 1893.

XLII. THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND.—Established in February 1956. One scholarship, awarded at the discretion of the Faculty, "on the basis of character, scholarship and financial need."

XLIII. THE SCOTT AWARD.—Established in 1955, for a period of five years, and renewed in 1960 for an additional five years, by the Scott Paper Company Foundation. "A two-year scholarship award for the Junior and Senior years, to be given to that student who is planning to embark upon a business career and who is judged by both students and faculty as an outstanding member of the Sophomore Class."

XLIV. JACOB P. JONES ENDOWMENT FUND.—This fund was established in 1897. The donor stated: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

XLV. THE W. LACOSTE NEILSON SCHOLARSHIP.—Established in 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory. The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts.

XLVI. THE KATHLEEN H. AND MARTIN M. DECKER FOUNDATION SCHOLARSHIP.—Established in 1958, the Kathleen H. and Martin M. Decker Foundation Scholarship is awarded annually to young men preparing themselves in the fields of physics, mathematics, chemistry and biology. The Scholarship Committee, in making their selections, will have regard for candidates who rank high in scholarship, leadership and character. At least one scholarship will be given each year with a maximum grant of \$1,000. The actual amount of the stipend will be determined by the financial need of the candidate.

XLVII. THE RUFUS MATTHEW JONES SCHOLARSHIP FUND.—Established in 1959 by Clarence E. Tobias, Jr., as a testimonial to Rufus Jones "and in gratitude for the excellent educational facilities Haverford provided for me and my son." The principal and income of this Fund are to be used for scholarships or loans to students majoring in Philosophy. Preference is to be given to seniors. The recipient will be selected by the Chairman of the Philosophy Department in consultation, if he desires, with his departmental associates and in accord with the usual scholarship practice of the College. The donor welcomes additions to the Fund from any who might be interested.

The General Scholarships

In addition to the endowed scholarships, a general scholarship fund is available. Awards from this fund will be made by the committee, the scholarships varying in size and number according to the need of the applicants.

Curriculum

General

HAVERFORD is a liberal arts college. Its curriculum is designed to develop in its students the capacity to learn and understand, and to make sound judgments based on knowledge and on thought. The requirements for the degree insure the exercise of these skills in each of the broad fields of human knowledge, and their subtler development in a single field of concentration.

Bachelor's Degree

To graduate from Haverford College a student must complete successfully four years of academic work and three years of Physical Education (part of which may be replaced by work in the Arts and Service Program). Credit for a year of academic work is given to a student who has passed five courses for each of two semesters with an average of at least 60 for the Freshman year, 65 for the Sophomore year, and 70 for the Junior and the Senior years. Among the courses taken, the student must include freshman English, the courses required for his Major Department, and, during the first three years, those required under the limited electives program (see below). In each course which is required as a part of his Major program, a student must achieve a minimum grade of 65. He must also include course 100 in his Major department during the second semester of the Senior year, at the end of which he must take the Major examination in that department, and receive in it a grade of at least 70. The degree normally conferred upon all candidates meeting these requirements is that of Bachelor of Arts. Upon request by the candidate and approval by the department concerned, however, the Bachelor of Science degree will be granted to men majoring in Natural Science, Mathematics, or Engineering.

The award of Honors for work toward the Bachelor's degree is described on page 121.

Limited Electives

To ensure breadth of distribution, every student is required to take a certain number of courses in each of four designated areas of study. This requirement must be satisfied before a student can be admitted to Senior standing. Exception may be made by agreement between the Major Supervisor and the Dean. The requirements are as follows:

1. FOREIGN LANGUAGES: One full-year course in a foreign language beyond the elementary grade. For the purpose of this requirement, all first year foreign language courses are considered as of elementary grade. However, students whose native tongue is other than English are not required to study additional language in college.

2. HUMANITIES: Division of courses into (a) and (b) categories is designed to assure that each student will have experience in the two areas: philosophic and religious, and literary and aesthetic. While recognizing that each Humanities course may have some elements of both areas, the faculty has agreed that the desired objectives can be reached by requiring that each student shall pass two semester courses in each of the following categories (a) and (b):

- (a) All courses in Biblical Literature; Humanities 21-22; all courses in Philosophy except 14 and 36.
- (b) All courses in Classics numbered above 14; all courses in English numbered above 12, except English 37; all courses in French numbered above 22; all courses in German numbered above 14, except German 24; all courses in History of Art and in Music; Russian 201, 203 (at Bryn Mawr); all courses in Spanish numbered above 14.

3. NATURAL SCIENCES AND MATHEMATICS: The requirement may be met by passing four semester courses chosen from:

Astronomy, Biology, Chemistry, Mathematics, Physics,
Geology 101a, 101b* and Physical Science 31, 36.

At least one of the four semester courses must be a laboratory course. Excluded from the category of laboratory courses are Biology 13, Physical Science 31, 36, and all courses in the Department of Mathematics.

4. SOCIAL SCIENCES: The requirement may be met by passing four semester courses chosen from at least two of the following departments:

* Geology is offered at Bryn Mawr College. In order for a student to take courses at Bryn Mawr, he must meet the requirements as stated on page 44 of this catalog.

Economics, History, Political Science, and Sociology (including Psychology courses also listed under Sociology).

N.B. Courses in Classical Civilization, which are also listed under History, may be used in meeting the Social Science requirement or the Humanities (b) requirement, but not both.

Courses taken in Summer School will not normally be accepted as satisfying limited electives requirements.

Free Electives

A number of courses sufficient to bring the total to forty semester courses shall be chosen by the student in consultation with his Faculty Adviser, with the understanding that the College reserves the right, through the Adviser and the Dean, to prevent unreasonable combinations of courses.

Non-Academic Electives

Three terms of Physical Education or of courses in the Arts and Service Program are required of each Freshman, Sophomore, and Junior, as described on pages 84 and 102. These courses must be taken in addition to the 40 semester courses of academic work required for a degree.

Major Concentration

A student may elect to major in any one of the following departments: Astronomy, Biblical Literature, Biology, Chemistry, Classical Archaeology (Bryn Mawr College), Classics, Economics, Engineering, English, French, Geology (Bryn Mawr College), German, History, History of Art (Bryn Mawr College), Italian (Bryn Mawr College), Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology, Spanish.

Definite requirements are stated under the name of each department on pages 49-101. During the fourth semester of his attendance each student should confer with the Major Supervisor of the department in which he wishes to major, and apply to him for written approval of a program of courses for the last four semesters. Such a program must provide for the completion, by the end of the Senior year, of approximately twelve semester courses, or the equivalent, at least six of which must be in the Major Department and the others in closely related fields. Should the student's application be rejected by the department of his first choice, he must immediately apply in another. Failure to file with the Dean, before the date specified on the College Calendar, a copy of his Major Program signed by his Major Supervisor, will entail a fine of \$5. Any student who continues delinquent in this matter will be debarred from the final examinations in his fourth semester. Should the student's application be rejected by all the departments to which he applies, he will not be promoted.

A student who applies for permission to become a Major in any department may be rejected for *scholastic reasons only*. The College rule on this point is:

If, at the time specified for application, the average of the grades obtained by a student in the "preliminary courses"* of any department is 75 or above, the student will be accepted by that department.

If the average of the grades obtained in these courses is below 70, the student will be accepted in that department only under exceptional circumstances.

If the average of the grades obtained in these courses is 70 or above, but below 75, the decision will be at the discretion of the Major Supervisor.

A student who has been formally accepted as a Major by any department has the right to remain as a Major in that department as long as he is in College. Should he wish to change from one department to another after the beginning of his fifth semester, the change can be made only with the consent of the new Major Supervisor and the Dean.

Each Senior must take a special Major comprehensive examination (written, oral, or both) during the period scheduled for such examinations. The purpose of this examination is to promote the student's comprehension, integration and application of the knowledge acquired in the field of his major concentration, and to secure evidence of this achievement. The passing grade for this examination is 70. In case of failure, a candidate may, with the permission of his Major Supervisor, present himself for re-examination at a date (to be determined by the Major Supervisor) later than Commencement Day of the current year.

If the re-examination is taken one year later, during the regular period of Major examinations, there is no fee. But if the candidate applies for re-examination at an earlier date (involving the preparation of a special examination for one individual), and if the request is granted, the fee is \$25.

As special background for the comprehensive examination a senior shall engage in a period of study, technically called course 100, in his department of concentration during the semester preceding that examination. This period of study shall be counted as one of the five courses normally carried by the student during his final semester. Evaluation of the work in course 100 may

* "Preliminary courses" are any courses the student may already have taken in the department to which he is applying. If the applicant has not already taken any courses in that department, the department may name courses in other departments which are to be regarded as "preliminary."

be included in the grade earned by the student in his comprehensive examination.

In case of failure in the comprehensive examination a student does not necessarily repeat the term work of course 100, but follows the application procedure for re-examination as indicated on the preceding page. A student may not take more than two re-examinations in the field of his major concentration.

Students taking Majors under the supervision of Bryn Mawr College will note that their course 100 may extend over more than one semester; if this is the case, credit for two courses at Haverford will be granted if the work in each semester of this course is satisfactory.

Examinations in courses in the Major subject taken in the last semester of the Senior year may be omitted at the discretion of the Major Supervisor.

Courses taken in Summer School will not satisfy Haverford course requirements for the Major unless prior written approval is granted by the Major Supervisor.

A student who has demonstrated unusual maturity and who has special interests and abilities may be permitted to arrange an *interdepartmental major*. The program of courses, the nature of the 100 course, and the nature of the comprehensive examination for an interdepartmental major are to be worked out in advance (that is, when the major is selected) by the student, with permission of the Dean, in consultation with and subject to the approval of the chairmen of the departments concerned, one of whom will be designated as Major Supervisor for that student.

In rare cases, and only for high ranking students, a *double major* may be arranged, in which the student takes the complete major in each of two departments. In order to take a double major, a student must receive permission from the Dean as well as from the chairman of each of the departments concerned.

Freshman Program

Each Freshman, on entering the College, is assigned to a Faculty member as Adviser. Normally, the student keeps the same Adviser until he chooses a Major near the end of the Sophomore year, when the Chairman of the Major Department becomes his Adviser. Assignment of Advisers for incoming students is made by the Dean, on the basis of the best evidence available to him. If, after being assigned an Adviser by the Dean, the student finds another Faculty member whom he would prefer to have as Adviser, he is urged to inform the Dean of this preference, so that, if possible, the change can be made.

The Faculty Adviser is instructed to advise each of his freshmen advisees on a plan of study suited to his special needs; however, the faculty requires that English be taken throughout the year and strongly recommends that in all usual cases the remaining four courses be: one course in language, one course in the area of Social Science, one course in the area of Natural Science and Mathematics, and one additional course.

The courses open to Freshmen are numbered 11 to 20 in the section on Courses of Instruction. If he is qualified, a Freshman may be permitted by the department concerned and by the Dean to take more advanced courses.

A series of standard tests is administered to all entrants within the first few days of the first semester. These tests are helpful in guidance and counseling. One function of the tests is to determine which Freshmen should be recommended to take the voluntary course in Developmental Reading, which is offered each term, for no credit, to students who feel the need of establishing reading habits that will improve their comprehension and increase their speed in reading.

Each Freshman's capacity for oral expression is tested early in the academic year, and further training in speech is given to those who need it, as well as to any others who may request it.

Preparation for Professions

A large number of Haverford College students plan, after graduation, to enter upon further courses of study. As a liberal arts college, Haverford arranges its curriculum so that students who have such plans are able to meet the entrance requirements of graduate and professional schools. The College does not, however, attempt to anticipate in its own curriculum the work of any graduate or professional school. It is the conviction of the Faculty that the best preparation for graduate work is a liberal education, with sound training in basic disciplines, to which more specialized training may later be added.

A student who intends to go to a professional school is free to choose his major in accord with his principal abilities and interests, since professional schools, such as those of business administration, education, law, medicine, or theology, usually accept students on the basis of merit regardless of their choice of major and, except in the case of medical schools, without specific course requirements. The requirements of most state boards of medical licensure are such that all students who hope to be admitted to a medical school must take two semester courses, each of which must include laboratory work, in biology (usually Biology 12 and 21), Chemistry 13, 14, 25, and 26, and Physics 13, 14.

Students who plan to go to professional schools should seek advice as early as possible from appropriate Faculty members as follows: business administration, Mr. Bell; education, Mr. Dunathan; engineering, Mr. Holmes; law, Mr. Diamant; medicine, Mr. W. Cadbury; theology, Mr. Steere.

If a student plans to do graduate work in a departmental subject, such as engineering, mathematics, history, etc., he should consult as early as possible with the chairman of the department at Haverford which most nearly corresponds to the department in which he plans to work in graduate school. This adviser will be able to guide him in his selection of courses, his choice of Major (which will not *necessarily* be in the department of his intended graduate study), and other questions which may have bearing on his future.

Law schools, medical schools, and some graduate schools require applicants to take special admission tests. Arrangements for taking these tests are the responsibility of the student concerned; he can obtain information about them from the Faculty members mentioned above.

Regulations

Conflicting Courses

A student is not allowed to elect conflicting courses, except with the permission of the Dean and the two instructors concerned.

Additional Courses

Although the normal load is five courses each semester, a student who desires to do so may take additional work upon approval of his adviser and the Dean. Such approval will not normally be granted to Freshmen, but will usually be granted to a Sophomore, Junior, or Senior who requests it, if his average for the preceding semester was 80 or above. There is no charge for a sixth course taken by a student in full standing, but a fee of \$40.00 is charged for a sixth course taken to make up a deficiency.

Audited Courses

A student who wishes to audit a course should obtain the permission of the instructor. No charge is made for auditing.

Course Changes

Courses may be changed during the first week of each new semester. During that time students are free to make changes after consultation with their Advisers and the Dean.

Changes will not be permitted later except in cases where the student is known to be an excellent student and where he receives the consent of the professor to whose course he is changing and of his Adviser and of the Dean.

Special Cases

Whenever a student gives proof of special abilities, the College is prepared to lay aside such requirements of the normal program as stand between him and the development of his gifts.

The Committee on Academic Standing is empowered to act on requests for exceptions to any of the academic regulations.

Evaluation of Academic Performance

The instructor in each course submits at the end of each semester a numerical grade for each student. These grades may range from 0 to 100, the minimum passing grade for each course being 60. The grades obtained by each student are averaged together to give evidence of his overall performance during that semester.

The Committee on Academic Standing reviews students' records at intervals, and has authority to drop students from college, or to set requirements for additional work in cases of students whose work is unsatisfactory. As a rule, the Committee will drop from college Freshmen who do not receive the required minimum average of 60, Sophomores whose averages are below 65, and Juniors and Seniors whose averages are below 70. However, any student whose record is such as to justify the belief that he is not availing himself of the opportunities offered by the College may be dropped.

In a year course in which the work of the second semester depends heavily on that of the first, a student who fails the first semester but nevertheless is allowed to continue may receive credit for the first semester (although the grade will not be changed) if his grade for the second semester is 70 or above, provided that the instructor in the course states in writing to the Registrar at the beginning of the second semester that this arrangement applies.

A student who, because of special circumstances such as illness, receives a low grade in a course, may petition his instructor and the Dean for a special examination. If the request is granted, and the student takes the special examination, the grade in that examination will replace the grade originally received in the mid-year or final examination in computing the final grade for that course; the new course grade will be entered in place of the old on the student's transcript, and the semester average will be revised accordingly.

In some circumstances a student may be permitted by the Dean to drop a course, or to take less than the normal load, and thus does not receive grades for the full five courses. The Committee on Academic Standing will review all such cases, and will specify what work the student must perform to be restored to full standing. Similarly, in the case of a student who wishes to accelerate, this Committee will specify conditions under which credit for an extra semester's or year's work will be granted.

Intercollegiate Cooperation

Because of the cooperative relationship among Bryn Mawr College, Haverford College, Swarthmore College, and the University of Pennsylvania, full-time students of any of these four institutions may, upon presentation of the proper credentials, enroll for courses in another institution of the group without additional expense.

Students desiring to take advantage of this arrangement must obtain the permission of the Dean. Permission is granted only if the equivalent of the course in question is not offered at Haverford, and there is no conflict with required appointments at Haverford. This permission is not granted to Freshmen, and is not usually granted to a student whose general average for the preceding semester has been less than 80. Exceptions may be made in case the course at the other institution is necessary for the student's Major. It is the student's responsibility to register in the selected course on registration day at the institution where the course is to be given. The course should also be entered on his registration card at Haverford.

Junior Year Abroad

Well-qualified students who request it may be granted permission to spend the Junior Year studying in a foreign country. Such permission will require approval of the student's Major Supervisor and the Dean. If the student is not a language Major, approval will also be required of the Chairman of the Department of the Language spoken in the country selected. Interested students should consult the Dean early in the Sophomore year; he will direct them to Faculty members best qualified to advise them. The program of studies must be worked out in advance; if the program is completed successfully, the College will grant credit toward the degree for the work of the Junior year. Scholarship funds may be transferred for approved study abroad.

Visitors and Lectures

Individual departments of the Faculty invite visitors to Haverford for varying periods of time to meet with members of the department and with

students interested in that field. These departmental visitors, who sometimes give public lectures, contribute considerably to the vitality of the work in the various departments.

This program has been greatly strengthened as a result of a generous bequest from the late William P. Philips. A substantial sum from this bequest is used to bring to Haverford "distinguished scientists and statesmen," whose visits may last anywhere from a few hours to a full academic year. On page 14 of this catalog is a list of the visitors brought to the campus under this bequest during the academic year 1959-1960.

The Haverford Library Lectures and the Shipley Lectures, both endowed lectureships, provide annual speakers. The endowment for the former, a gift from the estate of Mary Farnum Brown, is available "for an annual course or series of lectures before the Senior Class of the College, and other students, on the Bible, its history and literature, and as a way may open for it, upon its doctrine and its teaching." The fund for the latter was presented by Samuel R. Shipley, in memory of his father, Thomas Shipley. The income from the Shipley fund is used "for lectures on English literature." At the weekly Collection meetings of the whole College prominent visitors talk to the student body on subjects of current interest.

The Class of 1898 Lectureship was established by that class in 1948.

Graduate Study

The College is empowered to grant degrees of Master of Arts or Master of Science, but very few candidates for these degrees are currently being admitted. Scholarship aid, financed by the T. Wistar Brown fund, is occasionally granted to such candidates, but the College's present policy is more often to utilize these funds for the support of graduate students, not necessarily candidates for graduate degrees, who wish to study in fields which Haverford's position as a Quaker college makes particularly appropriate.

Inquiries about graduate work at Haverford should be addressed to the Director of Admissions.

COURSES OF INSTRUCTION

THE NUMBERING SYSTEM used in this catalog involves a two-digit number for each semester course. Courses numbered from 11 through 20, primarily Freshmen courses, are open to all students; courses numbered from 21 through 30 are open to Sophomores, Juniors and Seniors; courses numbered from 31 through 60 are open to Juniors and Seniors; courses numbered from 61 through 80 are open only to Seniors; courses numbered from 81 through 89 are project courses open to Seniors and, in exceptional circumstances, to Juniors; in each department the course in preparation for the comprehensive examination is numbered 100.

When two course numbers, followed by a single description, are joined by a hyphen, the course is a year course; a student who takes the first semester of such a course must normally take the second semester. When two course numbers followed by a single description are separated by a comma, the first semester may be taken without the second, though the two are normally taken together as a year course. In either case, the first semester course is prerequisite to the second.

Unless further designated with an *a* (first semester) or a *b* (second semester), courses with uneven numbers are given in the first semester; those with even numbers in the second.

Where a course is listed as a prerequisite for another course, a grade of 65 or better will be required in the prerequisite course, unless otherwise specified; in exceptional circumstances, however, the instructor may waive this requirement at his discretion.

Each course carries three semester hours credit, and is offered annually, unless otherwise specified.

Astronomy

PROFESSOR LOUIS C. GREEN, *Chairman*

THE DEPARTMENTAL WORK is designed to give students an understanding of and an interest in the universe in which they live. At all times in the course work the relation of astronomy to the other fields of learning is kept to the fore. The courses progress from the elementary, through courses requiring more mathematical and physical background, to the strictly logical and critical development of a limited problem.

Major Requirements

Astronomy 11, 12, 45, 46, 81, 82, and 100; Mathematics 21, 22; Physics 13, 14, 28.
Three written comprehensive examinations of three hours each.

Requirements for Honors

All Astronomy majors are regarded as candidates for Honors. The award of Honors will be made on the basis of superior work in the departmental courses, in certain related courses, and in the comprehensive examinations.

11, 12. DESCRIPTIVE ASTRONOMY—*Four hours, including one laboratory period a week.* Mr. Green.

Our knowledge of the motions, composition, organization, and evolution of the solar system, stars, and galaxies is presented, together with explanations of the methods by which this information is obtained. The laboratory work consists of visual, photographic, and spectroscopic observations of the sun, moon, planets, stars, and nebulae. Prerequisite to Astronomy 12 is Astronomy 11 or consent of the instructor.

21, 22. READING COURSE IN STELLAR ASTRONOMY—Mr. Green.

Systematic reading in stellar astronomy from an established list of recent books and research articles. This course may be begun in either semester. Prerequisite: Astronomy 11, 12.
Not offered in 1960-61.

45. ASTROPHYSICS—Mr. Green.

An introduction to spectroscopy, quantum mechanics, and statistical mechanics leads to the study of ionic and molecular equilibria in the atmosphere of the stars, in the diffuse nebulae, and in interstellar space. Prerequisite: Physics 28 and Mathematics 21, 22.
Offered in 1960-61 and alternate years.

46. ASTROPHYSICS—Mr. Green.

The transfer of radiation in stellar atmosphere, the internal constitution of the stars, and the sources of stellar energy. Prerequisite: Physics 28 and Mathematics 21, 22.
Offered in 1960-61 and alternate years.

81, 82. SPECIAL TOPICS IN ASTROPHYSICS—Mr. Green.

The content of this course may vary from year to year to suit the needs of advanced students. It may be repeated for credit. Prerequisite: Considerable maturity in Mathematics, Physics, and Astronomy.

Offered in 1960-61.

Biblical Literature

PROFESSOR EMERITUS JOHN W. FLIGHT

VISITING ASSISTANT PROFESSOR ROBERT L. HORN

THE COURSES IN THIS DEPARTMENT are designed to acquaint the student with the Judeo-Christian background of Western civilization, to examine the role played by this tradition in Western life and thought from the biblical period to the present day, and to offer an introductory examination of the major religious traditions of East and West.

Courses in the department follow a three-stage sequence:

- 1) A one-year course (11, 12) dealing with the literature of the Bible, its historical context and the theological content of the biblical books.
- 2a) A series of three one-semester courses covering the history of Christian thought from the early Church to the present day (21, 22, 31).
- 2b) A one-year course in the History of Religions (23, 24), designed to acquaint the student with the major religious traditions of East and West.
- 3) Project courses (81, 82) in one of the following fields, Bible, History of Christian Thought, History of Religions, chosen with the consent of the instructor.

Major Requirements

Biblical Literature 11, 12; two from 21, 22, 31; 23, 24; 81 or 82, and 100.

Philosophy 21-22 and four other semester courses in related departments chosen with the consent of the adviser.

Special study of a selected field chosen from 1) Bible, 2) Early Christian thought, 3) Medieval and Reformation Religious thought, 4) Modern Jewish and Christian thought; election of related courses in other departments to supplement this study; a thesis in the area chosen for special study, to be written in connection with Biblical Literature 81 or 82.

Comprehensive examinations of three hours each covering two fields chosen from the above and History of Religions, but exclusive of the field of the thesis.

Requirements for Honors

Students who are considered by the department as qualified to become candidates for Final Honors will be invited to do so in the second semester of the Junior year. Honors work will require independent reading, project courses, and superior work on a thesis and in Biblical Literature 100.

11, 12. INTRODUCTION TO THE BIBLE—Mr. Flight.

An examination of the literature of the Bible, its historical context and its theological content. In the first semester the Old Testament is studied. Problems concerning the nature of biblical authority and methods of interpreting the Bible are raised. The second semester deals with the books of the New Testament and the growth of the early Church. Extensive reading in the Bible; lectures and discussion; frequent examinations.

21. EARLY CHRISTIAN THOUGHT—Mr. Horn.

The development of Christian thought from the end of the first century to the fall of the Roman Empire. Extensive reading of primary sources; lectures and discussion; frequent papers and a final examination. Prerequisite: Biblical Literature 11 or 12; Philosophy 11 or 21-22 (21-22 may be taken concurrently).

Offered in 1960-61.

22. MEDIEVAL AND REFORMATION RELIGIOUS THOUGHT—Mr. Horn.

Examination of the major theological systems of the Middle Ages; background and development of Reformation thought. Extensive reading in primary sources; lectures and discussion; frequent papers and final examination. Prerequisite: Biblical Literature 21 or permission of instructor.

Offered in 1960-61.

23, 24. HISTORY OF RELIGIONS

A survey course examining the major religious traditions of East and West. The first semester begins with a brief study of primitive religions and an examination of the major concepts employed in the study of religion. Study of the religions of India: Hinduism, Buddhism, Jainism, Sikhism. In the second semester the religions of the Far East and Near East are studied: Taoism, Confucianism, Shinto; Zoroastrianism, Islam. Lectures and discussion, report papers, final examination. Prerequisite: Biblical Literature 11 or 12 and permission of the instructor.

Not offered in 1960-61.

31. MODERN JEWISH AND CHRISTIAN THOUGHT

A study of the development of Jewish and Christian thought in the period from the Renaissance to the present day. Special attention is given to problems raised by scientific approaches to the study of religion. An historical examination of the sources of contemporary theology will be made, and selected works of contemporary theologians will be read. Occasional lectures; discussion; frequent papers and final examination. Prerequisite: Biblical Literature 11 or 12 and permission of instructor.

Not offered in 1960-61.

81, 82. PROJECT COURSES—Mr. Horn and Mr. Flight.

Individual work elected by the student from the areas of Bible, History of Jewish and Christian Thought, History of Religions. Limited to six students with priority to senior majors. Prerequisite: Biblical Literature 11 or 12 and one course above elementary level.

Biology

ASSOCIATE PROFESSOR ARIEL G. LOEWY, *Chairman*

ASSISTANT PROFESSOR MELVIN SANTER, *Acting Chairman*

ASSISTANT PROFESSOR IRVING FINGER

VISITING PROFESSOR JAMES D. EBERT

VISITING ASSISTANT PROFESSOR ROBERT L. DEHAAN

VISITING ASSISTANT PROFESSOR GEORGE L. HAGEN

VISITING ASSISTANT PROFESSOR ALBURT M. ROSENBERG

LECTURER URSULA SANTER

THE BIOLOGY program is designed to give a solid foundation in general biological principles, an insight into recent developments of experimental aspects of the field, and an opportunity for a research experience in the senior year.

The courses are built up in a sequence of three stages.

- 1) Four introductory courses to be taken at the freshman and sophomore level which cover biological principles (13, 21) and biological diversity (12, 14).
- 2) Six advanced courses (31, 32, 33, 35, 37, 38) to be taken at the junior or senior level designed to create sufficient competence for research in the senior year.
- 3) Three Senior Research Tutorials (61-62, 63-64, 65-66) involving reading of current literature, laboratory research, student lectures and seminars, and a senior thesis. The topics of these research tutorials lie in the areas of principal interest of the instructors.

Major Requirements

Biology 12, 13, 21, 31, 32, either 33 or 38, either 61-62 or 63-64 or 65-66, 100; Chemistry 13, 14, 25. Where prerequisites are required for these courses, the student must achieve a grade of at least 70 unless otherwise stated, or receive the consent of the instructor to apply them as prerequisites.

The Department strongly recommends the following additional courses since they provide a minimum theoretical background for advanced work in Biology: Mathematics 11 or 15, 16, Physics 13, 14, Chemistry 26, 31, 32.

Biology 100 consists of a series of seminars given by students and designed to tie together the work done in the three Senior Research Tutorials, and a written comprehensive examination at the end of the senior year.

Requirements for Honors

Since all Biology majors participate in the departmental Senior research program, they are all candidates for departmental Honors. These are awarded upon consideration of the following criteria of achievement: (a) grade average in courses, (b) Senior research and thesis, (c) performance on the comprehensive examinations, (d) performance on the Graduate Record Examination. The fee for the Graduate Record Examination will be paid by the department.

12. **THE ANIMAL KINGDOM**—*Four hours, including one laboratory period a week.*

Mr. Finger.

A study of the evolution of structure and function in the animal kingdom. Emphasis is also placed on contributions to general biological principles derived from experiments performed with representative species from the various phyla. One-third of the course is devoted to embryology.

13. **ORGANISMS IN TIME AND SPACE**—Mrs. Santer.

An introductory course dealing with the phenomenon of biological adaptation. It includes an elementary treatment of the principles of heredity and their application to population dynamics through time (evolution) and space (ecology).

14. **THE PLANT KINGDOM**—*Three hours. Two class periods and one laboratory period a week.* Mr. Hagen.

A study of evolutionary development in the plant kingdom and of the structure and function of the higher plants. Advanced students can do additional work in plant physiology.

21. **PHYSICAL BASIS OF LIFE**—*Four hours, including one laboratory period a week.*

Mr. Rosenberg and Mr. Santer.

An introductory course in the areas of cell biology conventionally denoted as Physiology, Biochemistry, and Biophysics. The course will attempt to give insight into the methods and subject matter of the physical-chemical approach to the study of living systems. This is a sophomore course; students who wish to postpone it to the junior year should obtain permission of the instructors at the end of the freshman year. Prerequisite: Chemistry 13, 14, or consent of the instructor.

31, 32. **MICROBIOLOGY**—*Four hours, including one laboratory period a week.*

Mr. Santer.

A course dealing with the microbial worlds of bacteria, viruses, fungi and algae. The lectures will define these various groups and describe how they carry on their life processes. Great emphasis will be placed on biochemical studies which have helped to elucidate (1) pathways of substrate metabolism, (2) biosynthetic capabilities, (3) methods of reproduction. In the laboratory the student will learn the techniques of culturing and recognizing various microorganisms and will study bacterial metabolism. Prerequisite: Biology 21; Chemistry 25 must be taken previously or concurrently.

33. **GENETICS**—*Four hours, including one laboratory period a week.*

Mr. Finger.

A consideration of hereditary mechanisms insuring regularity within the framework of diversity among living forms. Lectures will cover the contributions of

- the nucleus, cytoplasm, and environment to the development of a character and will be supplemented by laboratory experiments with the fruit fly, corn, and microorganisms. Prerequisite: Biology 13. It is recommended that Biology 31, 32 be taken concurrently.
35. **READING COURSE IN EVOLUTIONARY THEORY**—Mr. Finger.
The purpose of this course is to enable the student to acquaint himself with evolutionary theory, both current and past, by reading advanced textbooks, reviews and scientific journals. Prerequisite: Biology 33 and consent of the instructor.
- 37b. **DEVELOPMENTAL BIOLOGY**—*Three hours, including one laboratory period a week.* Mr. Ebert and Mr. De Haan.
A study of the development of animal and plant structure and function. Lectures and laboratories will deal mainly with the contributions of cellular and molecular biology to an understanding of the mechanisms leading to cellular and organ differentiation. Prerequisite: Biology 12.
38. **CELLULAR PHYSIOLOGY**—Mr. Loewy.
The purpose of this course is to develop a theoretical basis for the study of some integrated cell functions (osmotic, electrical and contractile work). Emphasis is placed on the physics and chemistry of proteins and nucleic acids and the sub-microscopic structure of the cell. Prerequisite: Biology 21, Physics 13, 14 to be taken previously or concurrently. It is recommended that Biology 32 be taken concurrently.
Not offered in 1960-61.
- 61-62. **SENIOR RESEARCH TUTORIAL IN COMPARATIVE BIOCHEMISTRY**—Mr. Santer.
Individual student research on various aspects of microbial metabolism. Present projects are concerned with the metabolism of chemosynthetic microorganisms. Laboratory work is supplemented with readings, written reports and seminars on advanced topics in microbiology and biochemistry. Prerequisite: Biology 31, 32.
- 63-64. **SENIOR RESEARCH TUTORIAL IN CELLULAR ARCHITECTURE**—Mr. Loewy.
Readings from current textbooks and periodicals on structural aspects of proteins, nucleoproteins, cellular particulates and cells. Considerable emphasis is placed on techniques by which fine structure can be studied. Research in an area relating protein chemistry to cellular fine structure and cellular function. Student lectures on readings and research. Prerequisite: Biology 38.
Not offered in 1960-61.
- 65-66. **SENIOR RESEARCH TUTORIAL IN PHYSIOLOGICAL GENETICS**—Mr. Finger.
Experiments will deal mainly with approaches to the problem of the interaction of genes and non-genic elements in determining cellular function. The experimental work will be carried out with microorganisms, especially protozoa, and experience will be gained in experimental design, culture and handling of small organisms, immunological techniques, and fractionation of cell particulates. Prerequisite: Biology 33 or permission of the instructor.
- 81, 82. **PROJECT COURSES**—Mr. Finger, Mr. Loewy and Mr. Santer.
Open only by permission of instructor.

Chemistry

PROFESSOR RUSSELL R. WILLIAMS, JR., *Chairman*

PROFESSOR WILLIAM E. CADBURY, JR.

ASSOCIATE PROFESSOR ROBERT I. WALTER

ASSISTANT PROFESSOR HARMON C. DUNATHAN

ASSISTANT PROFESSOR COLIN F. MACKAY

ASSISTANT PROFESSOR NORMAN J. HUDAK

THE SEQUENCE of courses in chemistry affords a developing knowledge of chemistry as a rational science, culminating in the exploration of a frontier of scientific knowledge. Fundamental principles and their application to the solution of scientific problems are stressed throughout and illustrated in laboratory work. The first course is designed to give a broad view of the principal concepts, methods and areas of application of the science of chemistry and is therefore well suited to provide experience in science to those primarily interested in other fields. At the same time this course provides the general preparation required for subsequent courses in the areas of inorganic, organic, analytical and physical chemistry. The course program provides full preparation for professional work in chemistry and offers the opportunity for direct contact with research work in the senior year.

A Major in chemistry who intends to undertake graduate study in the field should include in his program courses 34, 63 and 66, together with German 13-14 and Mathematics 21, 22. This is in accord with the level of accomplishment recommended by the American Chemical Society. For the courses in chemistry needed for premedical preparation, see page 41.

Major Requirements

Chemistry 13, 14, 23, 24, 25, 26, 31, 32, one additional advanced course, and 100.

Physics 13, 14, Math. 11, 16.

The comprehensive examination will cover the general field of the chemistry courses listed above.

Requirements for Honors

Students who are considered qualified will be invited to become candidates for Final Honors in the second semester of the Junior year. Such Honors candidates will be expected to undertake a Senior laboratory research project (courses 81, 82). Accomplishment at a level superior, in both quality and quantity, to that expected in normal course work will be required. The award of Final Honors will be based on superior performance in the research project, in major courses, and in the Senior comprehensive examinations.

- 13, 14. GENERAL CHEMISTRY—*Four hours, including one laboratory period a week.* Department staff.

A study of chemical principles, beginning with the laws of chemical combination and proceeding with detailed interpretation of chemical behavior in terms of the electronic structures of atoms and molecules. Topics covered in the first semester will include: modern theory of atomic structure and its relation to the periodic system of elements, types of chemical bonds with emphasis on ionic compounds, oxidation and reduction, acids and bases, chemical equilibrium. Topics covered in the second semester will include: the nature and properties of the covalent bond, the concepts of structure, isomerism, and functional group, and a survey of the chemistry of some representative covalent compounds of various elements.

A special section of this course is available for students with above average aptitude for and preparation in science. Various special topics will be covered in addition to those mentioned above. Assignment to this section is at the discretion of the Department.

- 23, 24. INORGANIC AND ANALYTICAL CHEMISTRY—*Four hours. Two class periods and two laboratory periods a week.* Mr. MacKay.

A study of the principles, methods and factual matter of inorganic and analytical chemistry. The lectures deal with electrolyte solutions, ionic equilibria and systematic inorganic chemistry. Laboratory work will include qualitative and quantitative analysis. Prerequisite: A grade of 70 or higher in Chemistry 14, or consent of the instructor.

- 25, 26. ORGANIC CHEMISTRY—*Four hours, including one laboratory period a week.* Mr. Dunathan and Mr. Hudak.

A survey of the chemistry of the functional groups common in organic compounds and of the elementary theoretical basis of organic chemistry. Prerequisite: A grade of 70 or higher in Chemistry 14, or consent of the instructor.

- 31, 32. PHYSICAL CHEMISTRY—Mr. Williams and Mr. Cadbury.

A study of the physico-chemical properties of matter, the first and second laws of thermodynamics, homogeneous and heterogeneous physical and chemical equilibrium, electrochemistry and chemical kinetics. Prerequisite: Chemistry 23, Physics 13, 14, Math. 11, 16.

34. PHYSICAL CHEMISTRY LABORATORY—*Three hours. Two laboratory periods and one lecture each week.* Mr. Williams.

Laboratory exercises in physical chemistry in the areas of thermodynamics, electrochemistry, and kinetics. Lectures on the treatment of experimental data. Prerequisite: Chemistry 31 and 32 (may be taken concurrently).

61. ADVANCED PHYSICAL CHEMISTRY—Mr. MacKay.

Lectures on various topics in modern physical chemistry, including atomic and molecular structure, kinetics, and nuclear chemistry. Prerequisite: Chemistry 32.

63. QUALITATIVE ORGANIC ANALYSIS—*Four hours. Two laboratory periods and two lectures each week.* Mr. Hudak.

The identification of organic compounds with major emphasis on degradative and spectroscopic methods as applied to structure determinations. Prerequisite: Chemistry 26.

64. **ADVANCED ORGANIC CHEMISTRY**—Mr. Dunathan.
Selected topics from the fields of stereochemistry, reaction mechanisms and the structure and biosynthesis of natural products. Prerequisite: Chemistry 26.
66. **ADVANCED INSTRUMENTAL METHODS**—*Four hours. Two lectures and two laboratory periods a week.* Mr. Williams.
Experimental problems in physical and analytical chemistry, including optical, electro-chemical and other instrumental techniques. Prerequisite: Chemistry 34.
- 81, 82. **RESEARCH PROJECTS IN CHEMISTRY**—Staff.
Laboratory and library research projects in chemistry. All seniors are urged to take a one-semester library research project on a topic selected from a list furnished by the staff. The report on the project will be presented in both written and oral form.
- Laboratory research projects of two semesters duration are expected of candidates for Final Honors and may be taken by other students only with the consent of the Department staff.

Classics

PROFESSOR HOWARD COMFORT, *Chairman*

ASSISTANT PROFESSOR GEORGE A. KENNEDY, *Acting Chairman*

VISITING ASSISTANT PROFESSOR FRANK J. GROTEN, JR.

THE CLASSICS DEPARTMENT offers instruction in the language, literature and civilization of the Greek and Roman peoples. Knowledge of the Classics is fundamental to an understanding and proper use of the English and Romance languages, familiarity with the Classics is an indispensable background for the Western European literary tradition, and the history and civilization of Greece and Rome provide an explanation of, and parallels to, many pressing contemporary political, economic, social and religious problems.

Principal emphasis is laid upon meeting the Greek and Roman legacy through the medium of the original languages, but courses in Classical Civilization offer opportunities to study ancient history and literature in English translation.

Two major programs offer students an opportunity either to specialize in the ancient world or to follow the Classical Tradition into its modern manifestations.

Major Requirements

Two major programs are available in this department:

A. Classics Major: six full year courses divided between Greek and Latin, of which Classics 31, 32 or 33, 34 or 81, 82 must be one; Classics 100; a written comprehensive examination.

B. Classics and the Classical Tradition Major: approval of a specific program involving the study of at least one ancient language and one modern field; four full year

courses in Greek or Latin; four semester courses on the related field in other departments; a thesis, ordinarily written in connection with Classics 81, 82; Classics 100; a written comprehensive examination.

Requirements for Honors

A. Classics Major. A Classics major who is considered qualified will be invited to become an Honors candidate at the end of the first term of the Junior year. In consultation between the student and his adviser an individual reading list in Greek, Latin, and modern languages will be drawn up, adapted to the student's needs and interests. He will be examined on this list as an additional part of his comprehensive examination. Honors and High Honors will be awarded on the basis of these examinations and the student's course work.

B. Classics and the Classical Tradition Major. All students admitted to this program will be deemed Honors candidates. Honors and High Honors will be awarded on the basis of the thesis, the comprehensive examination, and the student's course work.

Courses in Greek Language and Literature

11-12. ELEMENTARY GREEK—Mr. Kennedy.

Thorough study of the elements of the language followed by reading in a number of ancient Greek authors.

21, 22. INTRODUCTION TO GREEK LITERATURE—Mr. Groten.

Extensive reading in Homer, lyric poetry, Euripides, and Plato with lectures and reports on the history and chief features of Greek literature. Prerequisite: Classics 11-12 or the equivalent.

31, 32. GREEK LITERATURE IN THE FIFTH CENTURY—Mr. Kennedy.

Study of Aeschylus, Sophocles, Herodotus and Thucydides or of other Greek authors as dictated by the needs of the students enrolled. Prerequisite: Classics 21 or 22 or the equivalent.

Offered in 1960-61 and alternate years.

33, 34. GREEK LITERATURE IN THE FOURTH CENTURY AND LATER—Mr. Kennedy.

Study of Demosthenes, Aristotle, and other authors as dictated by the needs of the students enrolled. Students majoring in Classics will be afforded opportunities to practice Greek composition. May be repeated for credit with change of content. Prerequisite: Classics 31 or 32 or the equivalent.

Offered in 1961-62 and alternate years.

Courses in Latin Language and Literature

13-14. ELEMENTARY LATIN

Basic instruction in Latin declension and conjugation; then Cicero's *First Oration Against Catiline*, nearly all the poems of Catullus, and selected Letters of Pliny.

15, 16. LATIN LITERATURE—Mr. Kennedy.

Review of grammar and vocabulary; reading in Vergil and/or Cicero. Prerequisite: Classics 13-14 or two or three years of preparatory Latin.

- 17, 18. **LATIN LITERATURE**—Mr. Groten.
Reading of Roman comedy and of authors of the Republic and Augustan Age.
Prerequisite: Classics 15, 16 or four years of preparatory Latin.
- 23, 24. **INDIVIDUAL TOPICS IN LATIN LITERATURE**—Messrs. Groten and Kennedy.
Systematic study of one or more aspects of Latin literature and Roman life. Prerequisites at the discretion of the instructor.
- 81, 82. **PROJECTS IN CLASSICS**—Messrs. Groten and Kennedy.
Prerequisites at the discretion of the instructor.

Courses in Classical Civilization not requiring the use of Greek or Latin

- 19-20. **CLASSICAL CIVILIZATION: HISTORY AND LITERATURE**—Mr. Kennedy.
(Also called History 19-20.)
Study of the significant events and trends of ancient history and of the chief works of Greek and Latin literature in English translation.
Offered in 1960-61 and alternate years.
29. **SEMINAR IN GREEK CIVILIZATION**—Messrs. H. Comfort and Kennedy.
(Also called History 29.)
Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history.
Offered in 1961-62 and alternate years.
30. **SEMINAR IN ROMAN CIVILIZATION**—Messrs. H. Comfort and Kennedy.
(Also called History 30.)
Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history.
Offered in 1961-62 and alternate years.

Economics

PROFESSOR HOWARD M. TEAF, JR., *Chairman*
PROFESSOR HOLLAND HUNTER, *Acting Chairman*
ASSOCIATE PROFESSOR PHILIP W. BELL
ASSISTANT PROFESSOR EUGENE SMOLENSKY

THE WORK in Economics is intended primarily to develop in students an understanding of the working of modern economic society, to give practice in the interpretation of economic data, to arouse an informed interest in public affairs, and to lay the basis for the formation of intelligent judgments in the field of economic policy. The introductory courses, Economics 11 and 12, are designed to give the basic understanding of economic processes and of

economic organization that should be part of a liberal education. The advanced courses also are offered as part of a program of liberal education, but are designed to meet, at the same time, the needs of men going on to graduate work in economics or business administration or directly into business. Several of the advanced courses should be of special value to men planning to enter the fields of law, journalism, the foreign service, or other government work. In the advanced courses emphasis is placed on the use of source materials and on research methods in economics, and students gain experience in the preparation of analyses and reports.

In Economics 81 and 82 there is wide latitude with respect both to subject matter and to course method. The specific subjects in each will vary from year to year, depending on the interests and capacities of the students.

Men expecting to major in Economics are advised to take, in the Freshman year, Economics 11 and 12, and at least two courses in Mathematics.

Major Requirements

Economics 11, 12, 23, 24, 31, 32, 81 or 82, and 100; and two other semester courses in Economics. Economics 100 consists of readings on selected domestic and international economic problems, extending the student's work in courses previously taken and, in so far as is possible, integrating the study of economics with related social sciences.

Two semesters of Mathematics and three other approved semester courses in the Social Sciences or Mathematics.

A comprehensive examination which normally includes a written examination, an oral examination, and the preparation of a research memorandum.

Requirements for Honors

Plans for Honors work usually will be laid at the end of the Junior year. This work includes a paper of high quality, usually written in conjunction with the Senior project course or courses. At least one examiner from outside the College will participate in oral examinations of candidates for High Honors.

11. ECONOMIC GROWTH AND WELFARE IN A FREE SOCIETY—Mr. Hunter and Mr. Smolensky.

A study of the main features of modern economic life in the United States, including the resource base and technological setting, the institutions, organization, and the functioning of capitalism. Emphasis is placed on the problem of economic stability and the relation thereto of national income, the banking system, inflation, the public debt, and government policy.

12. THE PRICE SYSTEM IN OPERATION—Mr. Hunter, Mr. Bell, and Mr. Smolensky.

A study of the manner and extent to which the basic economic questions of what is to be produced, how it is to be produced, and for whom it is to be produced

are solved by the pricing system. Special emphasis is placed on current operation of the price system in agriculture, industry, public utilities, and international trade; on control of prices through monopoly or government action; and on how these basic economic problems are solved under economic systems different from that of the United States.

Economics 11 and 12 together present the basic elements for an understanding of current economic problems. Students who are planning further work in economics or other social sciences are encouraged to take both courses.

23. BUSINESS AND NATIONAL ACCOUNTING—Mr. Smolensky.

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed on the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 11, 12, or permission of the instructor.

24. ECONOMIC EFFICIENCY IN A COMPLEX SOCIETY—Mr. Bell.

The application of mathematical techniques to problems in economics, including linear programming and problems of the firm; elementary game theory and problems of consumer and producer groups; Pareto optimality, competitive equilibrium, and social welfare problems of the society as a whole; and dynamic considerations involved in growth and cycle models. Prerequisite: Economics 11, 12, two semesters of Mathematics, or permission of the instructor.

31. MONEY, BANKING, AND ECONOMIC STABILITY—Mr. Bell.

A study of the theoretical framework necessary for understanding economic instability and of the monetary means available in the United States for the promotion of a stable level of activity. The course is divided into five central parts; an analysis of the circular flow of payments and the determination of the level of income, with special reference to the role of money; money and banking processes and determinants of the money supply as a basis for policy; Federal Reserve and debt management policy; the meshing of national monetary systems; and monetary panaceas and monetary reform. Prerequisite: Economics 11.

32. GOVERNMENT FINANCE—Mr. Smolensky.

An analysis of major issues in the field of government revenues and expenditures. Topics considered include standards for government expenditures, principles of equity in taxation, fiscal policy for stability and growth, political and economic problems in the implementation of public policy. Prerequisite: Economics 11 and 12.

33. POPULATION POLICIES AND PROBLEMS—Mr. Reid.

(See Sociology 33.)

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.

(See Political Science 34.)

36. LABOR ECONOMICS AND LABOR RELATIONS—Mr. Smolensky.

(Also called Sociology 36.)

A study of the fundamentals of the employer-employee relationship, such as wages, hours, security; the functioning of labor organizations and government; the pur-

poses and methods of collective bargaining. Special emphasis is placed on methods of resolving industrial conflict. Prerequisite: Economics 11 and 12, or permission of the instructor.

37. THE CORPORATION

An analysis of the economic and legal organization of modern corporations; their relation to security holders and securities markets; statutory regulation of their financial activities; economic aspects of internal decision-making problems; an evaluation of their impact on modern society. Prerequisite: Economics 23. Not offered in 1960-61.

39. GOVERNMENT AND BUSINESS—Mr. Hunter.
(Also called Political Science 39.)

An analysis of industrial market organization and government regulation of market practices. The history of anti-trust policy is reviewed and selected recent cases are discussed. Other topics include trade associations, cartels, basing-point pricing, and governmental price control. Opposing views on proper public policy are discussed and evaluated. Prerequisite: Economics 12.

41. THE SOVIET SYSTEM—Mr. Hunter.
(Also called Political Science 41.)

An analysis of the Soviet record as a case study in rapid industrialization. The evolution of major political, economic, and social institutions is reviewed; attention is given to trends and prospects. The topics examined include: the background of the 1917 Revolutions; the rise of Stalin and evolution of total government; forced industrialization and agricultural collectivization; stabilization of Soviet social organization; factors explaining wartime survival and postwar growth; evaluation of trends since 1953. Prerequisite: Four semester courses in the social sciences, or permission of the instructor.

42. THE ECONOMICS OF DEVELOPMENT—Mr. Hunter.

An examination of the economic and non-economic factors accounting for low per-capita incomes in underdeveloped economies, of the problems encountered in initiating the process of economic development, especially in non-Western societies, and of major policy issues associated with foreign aid for developing economies. The recent experience of India and China is reviewed. Short student research papers required. Prerequisite: Economics 11, 12, and two other courses in Political Science or Sociology, or permission of the instructor.

46. THE INTERNATIONAL ECONOMY—Mr. Bell.

International trade in goods and movements in the factors of production, and their effect on economic growth, stability, and welfare in the United States and in the rest of the world. Prerequisite: Economics 11, 12, or consent of the instructor. Not offered in 1960-61.

53, 54. INTERNATIONAL RELATIONS: ECONOMIC AND POLITICAL — Mr. Bell.

(Also called Political Science 53, 54.)

An examination of the major factors which condition international relations, with special emphasis on political and economic aspects. The first semester focuses on

certain basic elements: physical and human resources, fundamental and political and economic concepts, and a consideration of the relevance of moral and legal precepts to international politics, with special reference to the interaction of these factors prior to World War II.

The second semester is devoted to an analysis of major international developments since 1945, including a consideration of economic development, the settlement of disputes, control of armaments. This is followed by individual or group projects. Prerequisite: Economics 11, 12 and Political Science 11, 12, or permission of the instructor.

81, 82. PROJECT AND READING COURSES—Members of the Department.

Advanced study of selected issues in (a) domestic economic policy, (b) international economic relations, or (c) modern industrial and commercial organization. In each semester there may be a seminar if the interests of individual students overlap; otherwise each student will have an individual research or reading program. Admission is subject to the consent of the Department.

Engineering

PROFESSOR CLAYTON W. HOLMES, *Chairman*

ASSOCIATE PROFESSOR THEODORE B. HETZEL

ASSISTANT, NORMAN M. WILSON

HAVERFORD gives a fundamental engineering education based on the broad, well established liberal arts program so much emphasized as needed to meet today's requirements, and which is exceptionally well suited for preparing a student for a career in engineering, business or industry.

Students not intending to enter the highly specialized fields of design and research will find the Haverford courses ample for their needs. Graduates of Haverford who have majored in engineering are admitted to the student-engineers' courses of the leading industrial companies on equal terms with graduates of engineering colleges. Those who desire more technical training before entering the active work of the profession are granted substantial credit toward advanced standing in technical institutions or are admitted to their graduate schools.

The Engineering Major courses, including the science and mathematics courses that are usual in engineering schools, combined with courses in economics, sociology, and psychology, constitute a program such as is sometimes called "General Engineering" or "Engineering Administration." In addition the limited elective requirements insure breadth in the liberal arts, and nine free electives make a flexible program providing opportunity for additional concentration in science and engineering.

The engineering courses are conducted in Hilles Laboratory of Applied Science, a modern building with mechanical and electrical laboratories and other necessary facilities. Classes are small with close student-professor relationships.

Exceptional facilities are offered by the numerous industries in the Philadelphia area that welcome our students to visit their plants and the technical societies that invite them to their meetings. Frequent field trips are made.

Major Requirements

Engineering 11, 12, 21, 22, 33, 34, 41, 42, 100, and a Departmental seminar in which each Junior presents one paper, each Senior two papers on investigations of some engineering topic. Mathematics 21, 22, Physics 13, 14, and two half-year courses in Chemistry. The problems of the comprehensive examination are comparable to those of state examinations for a professional engineer's license.

Courses in Mathematics, Physics and Chemistry will be considered preliminary courses as defined on page 39.

Requirements for Honors

Honors in Engineering are granted on the basis of superior work in courses, particularly project courses, and in Engineering 100.

11. PRINCIPLES OF ENGINEERING DRAWING AND SHOP METHODS—*Three laboratory periods a week.* Mr. Hetzel and Mr. Wilson.

Two laboratory periods a week of instruction in the methods and conventions of engineering drawing and sketching: the use of instruments; orthographic, isometric, oblique and perspective drawings; intersections and developments; dimensioning. One period a week is spent in the shop working on metal-working machine tools. Two inspection trips to local industries.

12. ENGINEERING DRAWING, SURVEYING, AND SHOP METHODS—*Three laboratory periods a week.* Mr. Hetzel and Mr. Wilson.

Two laboratory periods a week of drawing and surveying: detail and assembly drawings; problems in descriptive geometry of lines and planes; a study of uniform and logarithmic graphs and of nomographs; solution of typical engineering problems; eight field exercises in plane surveying; surveying computations, drawing and mapping. One period a week is spent in the shop, machine-tool work on lathe, shaper and milling machine. Inspection trips. Prerequisite: Engineering 11.

21. KINEMATICS OF MACHINES—*One class period and two laboratory periods a week.* Mr. Holmes.

This course is an introduction to the understanding of machinery through the analysis of displacement and velocity in linkages and other mechanisms by means of diagrams and centros, the design of cams, gears and gear trains and other devices for the transmission of motion. Prerequisite: Engineering 11 or consent of the instructor.

22. ANALYTICAL MECHANICS—Mr. Holmes.

A study of forces and moments of forces; determination of forces in trusses and cranes; centroids and center of gravity; rectilinear and curvilinear motion; translation and rotation of bodies; work, power, and energy; impulse and momentum; balancing and moments of inertia. Prerequisite or parallel course: Mathematics 21, 22.

33. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week.* Mr. Hetzel.

Electrical and magnetic circuits, electrical measurements, theory and performance of direct-current machinery and distribution systems are studied by text assignments and problems, lecture and class discussion, and laboratory experiments. Prerequisite: Physics 13, 14, Mathematics 21, 22.

34. ELEMENTS OF ELECTRICAL ENGINEERING—*Four hours, including one laboratory period a week.* Mr. Hetzel.

This course deals with alternating-current circuits and machinery: single phase and polyphase circuits, transformers, generators, motors, transmission and distribution systems, instruments, control systems, and an introduction to electronics. Prerequisite: Engineering 33.

41. MECHANICS OF MATERIALS—*Two class periods and one laboratory period a week.* Mr. Holmes.

A study of stress and strain, beams and columns, shafting, girders, combined stresses, etc. Inspection trips. Prerequisite: Mathematics 21, 22 and Engineering 22.

42. THERMODYNAMICS—Mr. Holmes.

Energy, gas laws, vapors; mixtures of gases and vapors; theoretical and actual thermodynamic cycles for power and refrigeration. Prerequisite: Physics 13, 14.

43, 44. ELECTRONICS—(See Physics 43, 44.)

81, 82. SPECIAL PROJECTS

Open to all students with the necessary prerequisites after consultation with the instructor. Students in Engineering are encouraged to do individual work in some special field of investigation.

The following fields of study are suggested:

FLUID MECHANICS. Mr. Holmes.

Prerequisite: Mathematics 21, 22, and Physics 13, 14.

DESIGN OF MACHINE ELEMENTS. Mr. Holmes.

Prerequisite: Mathematics 21, 22, Engineering 22, 41.

INTERNAL COMBUSTION ENGINES. Mr. Hetzel.

Prerequisite: Physics 13, 14.

English

PROFESSOR RALPH M. SARGENT, *Chairman*

PROFESSOR JOHN A. LESTER, JR.

PROFESSOR CRAIG R. THOMPSON

ASSOCIATE PROFESSOR JOHN ASHMEAD, JR.

ASSOCIATE PROFESSOR FRANK J. QUINN

ASSISTANT PROFESSOR EDGAR S. ROSE

ASSISTANT PROFESSOR ALFRED W. SATTERTHWAITE

ASSISTANT PROFESSOR JAY H. GELLENS

ASSISTANT PROFESSOR JAMES W. HARPER

VISITING ASSISTANT PROFESSOR GUY M. DAVENPORT, JR.

VISITING ASSISTANT PROFESSOR HOMER B. GOLDBERG

THE ENGLISH DEPARTMENT offers the opportunity to study significant formulations of the human spirit in the English language, and to do critical and creative writing.

Many students who choose to major in English intend to pursue some aspect of the subject professionally: to proceed to graduate school, to teach literature, or to undertake a literary career. The program of the Department provides preliminary education for all these purposes. The study of English literature is recommended likewise to those students who wish to acquire a knowledge of their literary heritage, or to gain an acquaintance with the use of the English language, before entering a non-literary profession, such as law, government service, the ministry, medicine, or business. The Department welcomes such students.

English 11-12 is required of all Freshmen in the college; this course, or its equivalent, is a prerequisite to all further work in the Department. English 11-12 provides tutorial instruction in writing and an introduction to the study of literature.

Students who have difficulty in expressing themselves orally are recommended to take work in public speaking. The attention of slow readers is called to the remedial work in reading.

Courses 21, 22, 25, 26 and 37 are open to all students in the college who have met the prerequisites. Other courses are designed primarily for students intending to major, or already majoring, in English or closely related fields. They are open to other students only by permission of the instructor concerned. A central sequence of courses is arranged for students majoring in English. It consists of 23 (Renaissance) and 24 (Seventeenth Century) normally to be taken in the Sophomore year, and 31 (Eighteenth Century) and 32

(Nineteenth Century) normally to be taken in the Junior year. Courses numbered in the 60's are seminar courses, in most cases based on earlier work in the period; courses numbered in the 80's are devoted to individual projects, requiring a general knowledge of the field in which the project is undertaken.

Major Requirements

Three semester courses from the following: Renaissance (23), Seventeenth Century (24), Eighteenth Century (31), Nineteenth Century (32). Two other English courses chosen in consultation with the chairman of the department. Two courses numbered in the 60's (or one in the 60's and one in the 80's). English 100. Eight semester courses in all. Any one-semester course in classical literature (in Greek, Latin, or English) may be counted toward the English major.

The Comprehensive Examination in English will require a knowledge of the four major periods of English literature as provided in courses 23, 24, 31 and 32. Supporting material may be chosen from Chaucer (64), Shakespeare (33 and 62), American literature (25 and 26) and Twentieth Century (35 and 36).

Students who plan to proceed to graduate work are reminded that virtually all graduate schools require a reading knowledge of both French and German, and many of the leading ones require a knowledge of Latin also, for the Ph.D. degree in English.

Requirements for Honors

Students deemed qualified will be invited to become Honors candidates not later than the first semester of the Senior year. Candidates for Honors must achieve an over-all average of 85 or better in English courses (including English 100) completed in their Junior and Senior years.

Each Honors candidate must submit a substantial paper which demonstrates his ability to handle critically and to present in scholarly fashion an acceptable literary subject. This paper must be in the hands of the Chairman of the Department not later than May 1st of the student's Senior year. To be accepted for Honors, this paper must, in the judgment of the English faculty, reveal superior achievement.

Honors and High Honors will be granted to students at the discretion of the department on the basis of their work and achievement in courses and papers (or reading) as outlined above.

- 11-12. **READING AND WRITING ON HUMAN VALUES**—Messrs. Davenport, Gellens, Goldberg, J. W. Harper, Quinn, Sargent, and Satterthwaite.

Tutorial instruction in writing. Readings in the Humanities, centered on values in Western Civilization. Weekly writing, based on reading program. Two class meetings and one tutorial meeting weekly.

21. **GENERAL COURSE IN ENGLISH LITERATURE**—Mr. Goldberg.

Major figures in English Literature from Chaucer to Milton (including Shakespeare). Intended primarily for students who do not expect to major in literature.

22. **GENERAL COURSE IN ENGLISH LITERATURE**—Mr. Goldberg.

Major figures in English Literature from Swift to Eliot. Intended primarily for students who do not expect to major in literature.

23. LITERATURE OF THE ENGLISH RENAISSANCE—Mr. Sargent and Mr. Satterthwaite.
A critical study of poetry, prose and drama from Wyatt to Jonson, with brief attention to Shakespeare. The first in a sequence of period courses designed primarily for students intending to major in literature. Enrollment limited.
24. LITERATURE OF THE SEVENTEENTH CENTURY—Mr. Quinn and Mr. Satterthwaite.
A study of English literature from the metaphysical poets to Dryden, including Milton. The second of the sequence designed primarily for those intending to major in literature. Enrollment limited.
25. AMERICAN LITERATURE TO WHITMAN—Mr. Davenport.
Chiefly devoted to Poe, Hawthorne, Melville; Emerson, Thoreau, Whitman.
26. AMERICAN LITERATURE FROM WHITMAN TO DREISER—Mr. Davenport.
Chiefly devoted to Whitman, Dickinson, Lanier; Twain, Howells, James; Melville, Crane, Dreiser.
31. LITERATURE OF THE EIGHTEENTH CENTURY—Mr. Satterthwaite.
A study of the major literary works of the neo-classic and early romantic movements, from Defoe to Wordsworth and Coleridge. Prerequisite: English 24, or consent of the instructor.
32. LITERATURE OF THE NINETEENTH CENTURY—Mr. Harper.
A study of major literary works of the romantic and Victorian periods, from Byron to Hardy. Prerequisite: English 31, or consent of the instructor.
33. SHAKESPEARE—Mr. Sargent.
Extensive reading in Shakespeare's plays. Designed primarily for students majoring in literature. Prerequisite: English 21, 22, 23, or 24, or consent of the instructor. Enrollment limited.
35. BRITISH LITERATURE OF THE TWENTIETH CENTURY—Mr. Gellens.
Selected writers in poetry, prose and drama. Prerequisite: Two courses in English beyond 11-12.
36. AMERICAN LITERATURE OF THE TWENTIETH CENTURY—Mr. Davenport.
Selected writers in poetry, prose and drama. Prerequisite: Two courses in English beyond 11-12.
37. CREATIVE WRITING—Mr. Gellens.
Practice in writing imaginative literature. Chiefly confined to prose fiction. Regular assignments, class discussions and personal conferences. Prerequisite: Junior standing. May be repeated for credit.
42. MEDIEVAL CLASSICS—Mr. Thompson.
Selected works illustrating medieval thought and literary art, including such writers as Augustine, Boethius, the Beowulf poet, Chrétien, the saga writers, Abelard, Dante, Chaucer, Langland, and Malory.
Offered in 1960-61.

51. SPECIAL TOPICS IN NINETEENTH-CENTURY LITERATURE—Mr. Harper.
Seminar discussions and independent critical studies. Prerequisite: English 32 and consent of the instructor. Limited to nine students. Priority to Senior English majors.
62. TOPICS IN SHAKESPEARE—Mr. Sargent.
Close study of a few plays. Seminar. Prerequisite: English 23 or 33 or consent of the instructor. Priority to Senior English majors.
63. THE ENGLISH NOVEL, 1740-1820—Mr. Goldberg.
Analysis of selected works by Richardson, Fielding, Smollett, Sterne, Jane Austen and others, with emphasis on the development of narrative art. Seminar. Prerequisite: English 31 or consent of instructor. Priority to Senior English majors. Offered in 1960-61.
64. CHAUCER AND THE CHAUCERIANS—Mr. Quinn.
A study of the *Canterbury Tales*, *Troilus and Criseyde*, Chaucer's prose, and the work of Henryson and Dunbar. Prerequisite: Senior standing and consent of the instructor. Seminar. Limited to nine students. Not offered in 1960-61.
68. THEORY AND ANALYSIS OF POETRY—Mr. Gellens.
A consideration of representative texts, both imaginative and critical, from all periods of English and American literature, in the effort to establish the capacity to respond to poetry. Seminar. Priority to Senior English majors. Offered in 1960-61.
81. PROJECTS IN AMERICAN LITERATURE—Mr. Ashmead.
Chiefly devoted to American Literature of the Eighteenth and Nineteenth centuries. Students must draw up their projects in consultation with the instructor. Recommended for students who are candidates for Final Honors. Prerequisite: English 25, 26 or 36, or consent of the instructor. Limited to nine students. Priority to Senior English majors. Not offered in 1960-61.
82. PROJECTS IN RENAISSANCE OR CONTEMPORARY LITERATURE—Mr. Sargent.
Projects may be undertaken in the literature of Shakespeare's Age, or in modern British or American literature, but they must be drawn up in consultation with the instructor. Recommended for students who are candidates for Final Honors. Prerequisite: One of the following: English 23, 31, 33, 35, or 36, or consent of the instructor. Limited to nine students. Priority to Senior English majors.

French

(See Romance Languages)

General Courses

HUMANITIES 21-22. INTERPRETATION OF LIFE IN WESTERN LITERATURE

—Mr. Gutwirth, Mr. Cary, and Mr. Quinn.

A study in their entirety of selected literary and philosophic works which are great imaginative presentations of attitudes toward life. The course spans Western

culture from Homer to the present, and the readings are drawn from all the major literatures of the West, in the best available translations. Stress is laid on student involvement in issues raised by these books; consequently, the class work is handled entirely by the discussion method. Prerequisite: English 11-12.

PHYSICAL SCIENCE 31. INTERATOMIC AND INTERMOLECULAR FORCES—Mr. Green.

This course deals with the quantum mechanical explanation of chemical bonding, its ionic, covalent, and metallic character as well as its steric properties. The course also deals with the forces between molecules, and this discussion leads on the one hand to some explanation of the properties of gases, liquids, and solids and on the other to certain speculations in the biological field. Prerequisite: Mathematics 22, Physics 14 and Chemistry 14; or the consent of the instructor.

PHYSICAL SCIENCE 36. HISTORY AND PHILOSOPHY OF SCIENCE—Mr. Green.

(Also called Philosophy 36.)

This course is designed for the non-science major and the science major alike. The rise of modern science is discussed against the background of 16th and 17th century thought. The history of mechanics is carried forward to the relativity theory, and the history of optics and atomic structure leads to the quantum mechanics. The development of our ideas as to the nature of science is described and the implications of such concepts as the relativity of space and time, the indeterminacy principle, and complementarity are discussed. Prerequisite: the consent of the instructor, or a year of college mathematics.

German

PROFESSOR HARRY W. PFUND, *Chairman*

ASSISTANT PROFESSOR JOHN R. CARY

INSTRUCTOR OTTOMAR RUDOLF

LECTURER JOACHIM MAASS

ASSISTANT DIETMAR HAACK

THE MAIN OBJECTIVE of the German courses is twofold: 1) the acquisition of the language; 2) the study of the literature and civilization of which it is the medium. The courses are planned and conducted with the aim of enabling the individual student to fulfill most effectively his prospective needs. Hence provision is made for acquiring a practical speaking knowledge of the language as well as the ability to read it for undergraduate and post-graduate research, for which in many fields it is indispensable. An appreciation of German literature from the Middle Ages to the Contemporary Period is offered in a relatively wide range of courses.

German 11-12, 13-14, and 24 are primarily language courses. German 15 stresses literature, but combines this with practice in the language. The remaining courses are devoted largely to the history of German literature from

the earliest times to the present, and to the intensive study of special periods and eminent authors.

The collateral reading required in German 13-14 generally consists of works of literature but it may be done in the fields of philosophy or history or, at the discretion of the instructor, in the natural sciences.

Opportunity is given to students who complete German 11-12 or German 13-14 with distinction to advance rapidly into higher courses by passing a special examination on a prescribed program of collateral reading.

It is possible and in some cases highly desirable for a Major in German or a student otherwise interested in advanced work to take his Junior year abroad in a supervised Junior year program. Attention also is called to the opportunities offered by university summer schools in Germany, Austria and Switzerland, and to international seminars and work camps sponsored by the American Friends Service Committee and other organizations in these countries.

Major Requirements

German 21-22, 24, 32, 34, 36, and 100.

Supporting courses to be arranged in conference with the Major Supervisor.

A comprehensive examination covering: 1. The German language; 2. History of the German language; 3. German literature; 4. German history, 800-1945; and 5. A special period, literary movement, or author.

Requirements for Honors

Students who are considered qualified to become candidates for Final Honors will be required to complete one additional semester course in German beyond the minimum major requirements and to present an extensive thesis indicating thorough knowledge of one outstanding author or of a well-defined topic dealing with at least one literary period. A further requirement will be an oral examination following superior achievement in the comprehensive examinations.

11-12. ELEMENTARY GERMAN—Mr. Pfund, Mr. Rudolf and Mr. Haack.

Grammar, conversation and the reading of simple texts.

13-14. INTERMEDIATE GERMAN—Mr. Pfund, Mr. Cary, and Mr. Rudolf.

Texts of moderate difficulty but of value as literature or as contributions to the history of ideas are read both in class and as outside work. The ability to understand spoken German and to engage in simple conversation is stressed. One hour a week is devoted to grammar review and composition. Prerequisite: German 11-12 or the equivalent.

15. INTRODUCTION TO GERMAN LITERATURE AND CULTURE—Mr. Cary.

A selection of representative works in German literature from the age of Goethe to the contemporary period. Readings on various phases of contemporary German culture. The understanding of spoken German is stressed. Prerequisite: German 13-14 or the equivalent.

21-22. THE AGE OF GOETHE—Mr. Pfund.

Lectures and discussions on, and readings of, the chief works of Goethe (exclusive of *Faust*), Schiller, and certain of their contemporaries with a view to an understanding of the periods of Enlightenment, Storm and Stress, Classicism, and the beginnings of Romanticism. Emphasis upon literary and aesthetic appreciation and cultural backgrounds. Prerequisite: German 15 or the equivalent.

Offered in 1960-61.

24. ADVANCED COMPOSITION AND CONVERSATION—Mr. Cary.

The acquisition of an idiomatic command of the language in writing and speaking is stressed. Works of contemporary writers such as Thomas Mann, Hesse, Kafka, Wiechert and Bergengruen form the basis of discussion. Prerequisite: German 15 or the equivalent.

28. MODERN GERMAN LITERATURE—Mr. Maass.

A critical analysis and aesthetic evaluation of representative works of Thomas Mann, Kafka, Rilke, Werfel and others. Lectures, discussions, reports, and one term paper. The course will be conducted in English. Admission by permission of the instructor or the Chairman of the Department.

Offered in 1960-61 and alternate years.

32. GERMAN ROMANTICISM—Mr. Cary.

A study of German Romanticism as a literary and philosophical school of thought. Prose, drama, and poetry of selected writers from Tieck to Heine. Prerequisite: German 21-22 or permission of the instructor.

Offered in 1960-61 and alternate years.

33. GERMAN LYRIC POETRY—Mr. Pfund.

Lyricists from Walter von der Vogelweide to contemporary poets are read and discussed with emphasis on Goethe, Hölderlin, the Romanticists, Mörike, George, Hofmannsthal and Rilke. Prerequisite: At least one course beyond German 15.

Not offered in 1960-61.

34. NINETEENTH CENTURY LITERATURE—Mr. Cary.

Dramas and Novellen by selected writers from Büchner to Hauptmann. Prerequisite: German 15 or the equivalent.

Offered in 1961-62 and alternate years.

36. HISTORY OF GERMAN LITERATURE FROM ITS ORIGINS TO THE SEVENTEENTH CENTURY—Mr. Pfund.

Lectures in German, with collateral reading in modern German of the *Nibelungenlied*, Hartmann von Aue, Wolfram von Eschenbach, Gottfried von Strassburg, and others. Discussion, written and oral reports. Prerequisite: German 21-22 or permission of the instructor.

Offered in 1961-62 and alternate years.

37. FAUST—Mr. Pfund.

An intensive study of Goethe's *Faust* in the original. Consideration is given to kindred works in European literature. Prerequisite: At least one course beyond German 15.

Offered in 1960-61 and alternate years.

81 or 82. Mr. Pfund and Mr. Cary.

Individual work in various fields of German culture, such as literary theory, Middle High German, Baroque literature and contemporary literature. Prerequisite: At least one course beyond German 15. May be repeated for credit with change of content.

History

PROFESSOR THOMAS E. DRAKE, *Chairman*

PROFESSOR WALLACE T. MACCAFFREY, *Acting Chairman*

PRESIDENT HUGH BORTON

VISITING ASSOCIATE PROFESSOR EARL H. PRITCHARD

ASSISTANT PROFESSOR JOHN P. SPIELMAN, JR.

VISITING ASSISTANT PROFESSOR RUSSELL F. WEIGLEY

THE COURSES IN HISTORY are designed to give some conception of the development of the civilizations which exist in Europe, in East Asia, and in the United States today. Since history is the story of what men have done, it is related to every other field in the curriculum, but the limitation of time forces a selection of those aspects of human activity which can be treated in any course. An attempt is made to give a reasonably rounded view of those developments which are deemed most important in the period under consideration as a background for understanding other subjects in the fields of the humanities and the social sciences. With a variation of emphasis in each course, caused in part by the nature of the growth of civilization in the period and in part by the amount and the kind of historical evidence which has survived, attention is given to such phases of development as the political, constitutional, social, economic, religious, and intellectual. History 11-12 is intended to be an introductory course, and, although it is not a prerequisite for the election of any other course in the Department, it is required for those who major in History.

The study of history provides a background against which current problems of internal and external policies may be viewed to advantage. It also helps to develop critical standards for the evaluation of evidence which can often be applied in forming opinion with regard to the solution of such problems. Finally, it is useful as a foundation for professional studies not only in history but also in such subjects as public administration, journalism and law.

Major Requirements

History 11-12 and four other full year courses (or three full year courses and two half year courses) in History; History 100.

Two full year courses or their equivalent in related departments.

Majors in History must take at least one year course in each of three of the following fields: 1) Ancient History, 2) Medieval European History, 3) Modern European History, 4) American History. There will be a written comprehensive examination of three hours in one of these fields, chosen by the student as his area of concentration, and written comprehensive examinations of ninety minutes each in two other fields, one of which may be East Asian History. Majors concentrating in Ancient History are required to have a competence in Latin or Greek; those in Medieval History in French or German; those in Modern European History in French or German.

Requirements for Honors

Students deemed qualified as Honors candidates will be expected to do reading in the summer before their Senior year on a list suggested by the Department. At the beginning of the Senior year they must pass a written examination on this reading with a grade of at least 85. During the Senior year each Honors candidate must enroll in a project course. Honors will be judged on the basis of performance on the comprehensive examinations and in the project course.

11-12. INTRODUCTION TO WESTERN CIVILIZATION—Mr. MacCaffrey and Mr. Spielman.

A study of Western European civilization from the fall of Rome to the present. The course will be concerned with the principal institutions and with the major intellectual currents in Western European history. Firsthand materials as well as secondary historical accounts will be the basis for conference discussion. Open to Freshmen and Sophomores only.

19-20. CLASSICAL CIVILIZATION: HISTORY AND LITERATURE—Mr. Kennedy. (Also called Classics 19-20.)

Study of the significant events and trends of ancient history and of the chief works of Greek and Latin literature in English translation.

Offered in 1960-61 and alternate years.

21-22. FOUNDATIONS OF THE UNITED STATES, 1492-1865—Mr. Drake and Mr. Weigley.

Lectures, reading, and discussion in American colonial and early national history.

23-24. MEDIEVAL HISTORY—Mr. MacCaffrey.

A survey of European development from the fall of Rome to about 1400. Occasional lectures, extensive reading, papers and discussion, with a final examination. Admission by permission of the instructor.

Offered in 1961-62 and alternate years.

25-26. MODERN EUROPEAN HISTORY—Mr. Spielman.

The main currents of European institutional and intellectual developments since about 1750. Class discussion with occasional lectures, frequent papers.

29. SEMINAR IN GREEK CIVILIZATION—Mr. Howard Comfort and Mr. Kennedy. (Also called Classics 29.)

Reading in translation of extensive portions of the literary remains of one period of Greek civilization, together with a study of the history of the age. Seminar papers

will offer opportunities to individual students to emphasize either literature or history.

Offered in 1961-62 and alternate years.

30. SEMINAR IN ROMAN CIVILIZATION—Mr. Howard Comfort and Mr. Kennedy.

(Also called Classics 30.)

Reading in translation of extensive portions of the literary remains of one period of Roman civilization, together with study of the history of the age. Seminar papers will offer opportunities to individual students to emphasize either literature or history.

Offered in 1961-62 and alternate years.

31-32. NATIONAL DEVELOPMENT OF THE UNITED STATES, 1865 TO THE PRESENT—Mr. Drake.

A study of institutional growth, with the larger social and political issues of the present considered in their historical setting. Lectures, reading, papers, and discussion.

33-34. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MEDIEVAL ENGLAND—Mr. MacCaffrey.

A survey of British historical development from the coming of the Anglo-Saxons to the end of the Middle Ages. Although primarily political and constitutional, the course will include consideration of major economic and social trends as well. Extensive reading both in sources and secondary works will form the basis for conference discussion.

Offered in 1960-61 and alternate years.

35-36. THE POLITICAL AND CONSTITUTIONAL HISTORY OF MODERN BRITAIN—Mr. MacCaffrey.

A study of British history from the end of the Middle Ages, including economic, social, and intellectual development. Extensive reading with frequent papers and class discussion.

Offered in 1961-62 and alternate years.

37-38. MODERN HISTORY OF EAST ASIA—Mr. Borton.

A study of the international, political, social, and economic developments in Eastern Asia, from the early part of the 19th century to the present. Special emphasis will be given to a comparison of the processes of modernization of China, Korea, and Japan.

Not offered in 1960-61.

39-40. HISTORY OF CHINA—Mr. Pritchard.

A general cultural history of China from earliest times to the mid-nineteenth century.

Offered in 1960-61.

41-42. READING COURSE IN AMERICAN HISTORY, 1492 TO THE PRESENT —Mr. Drake.

Systematic reading and an examination in American History. Not open to students who have had History 21-22 or History 31-32; open to Juniors and

Seniors with the permission of the instructor.
Not offered in 1960-61.

43-44. HISTORIOGRAPHY—Mr. MacCaffrey.

A study of major historians from classical times to the present, followed by a survey of historical theorists and schools of the last century. Reading, discussion, and papers. Open to Juniors and Seniors with permission of the instructor. Prerequisite: History 11-12.

Offered in 1960-61 and alternate years.

45-46. GERMANY AND CENTRAL EUROPE, 1500 TO THE PRESENT—Mr. Spielman.

The evolution of modern Germany from the Protestant Reformation to the present. Particular attention will be given to the historical background of modern political and ideological conflicts in Central Europe. Extensive reading and reports will be the basis for class discussion.

Offered in 1960-61 and alternate years.

47-48. THE FRENCH REVOLUTION AND NAPOLEONIC EUROPE—Mr. Spielman.

The Old Régime and French society before 1789, the course of the Revolution in France, its consequences for the rest of Europe and the Napoleonic Empire to 1815. Class discussion and papers based on readings in the sources and interpretive works.

Offered in 1961-62 and alternate years.

81, 82. PROJECT COURSES IN HISTORY—Mr. Drake, Mr. MacCaffrey and Mr. Spielman.

History of Art

ASSOCIATE PROFESSOR JAMES FOWLE

UNDER the co-operative arrangement between the Colleges, Haverford students who wish to take advanced courses in History of Art may do so at Bryn Mawr College.

21, 22. AMERICAN ART: AN INTRODUCTION TO THE HISTORY OF ART—Mr. Fowle.

In 1960-61 this course will take as its material the arts in America from colonial times to the recent past. The purpose is the development of the student's visual perception of works of art, the encouragement of intelligent investigation of the means of artistic expression, and the provision of historical perspective for an understanding of the artists' achievements. Assignments will include papers on original works in the Philadelphia area.

Note: Students who wish to take an introductory course which deals primarily with European art may, with the Dean's approval, enroll in History of Art 101 at Bryn Mawr.

Mathematics

PROFESSOR CLETUS O. OAKLEY, *Chairman*

ASSISTANT PROFESSOR JAMES O. BROOKS

ASSISTANT PROFESSOR LOUIS SOLOMON

VISITING ASSISTANT PROFESSOR LEONARD N. BIDWELL

LECTURER SAMUEL S. MCNEARY

THE AIMS of courses in Mathematics are: (1) to promote rigorous thinking by exhibiting a systematic, deductive, intellectual discipline; (2) to present to the student the direction and scope of mathematical developments; (3) to foster technical competence in mathematics as an aid to the better comprehension of the physical, biological, and social sciences; and (4) to guide and direct the mathematics majors toward an interest in mathematical research.

The following sequences are open to qualified students: 11, 14, for non-specialists; 15, 16; 11, 16, for those who have had some calculus in high school; 21, 22, for those students who have had a year of high school calculus.

The more advanced courses cover work in the fields of analysis, algebra, geometry, and statistics. The student majoring in the Department extends his studies into all of these areas; he may prepare for teaching in preparatory school, for graduate study leading to college teaching or research, or for statistical and actuarial work.

The sequence in analysis and algebra, Mathematics 21, 22, 31, 32, 33, 34, 63, is especially suited to the needs of the physical sciences, while Mathematics 14 and 38 deal with those concepts of statistics and probability which are fundamental to the biological and social sciences.

Major Requirements

Mathematics 21, 22, 31, 32, 33, 34, 35, 36, 63, 82 and 100.

Recommended collateral courses are Physics 13, 14, 28, 41, 42; Astronomy 45, 46, or for prospective Actuaries, Economics 11, 12, 23.

Prescribed parallel reading on the history and general principles of mathematics.

Three written comprehensive examinations, each three hours in length.

It is recommended that facility in reading French and German be acquired as early in the college course as possible.

Requirements for Honors

A student may be awarded Honors in Mathematics on the basis of course work in Mathematics, performance on the comprehensive examinations, an additional oral examination, and general evidence of superior ability, initiative, and interest in the study of Mathematics.

11. **FRESHMAN MATHEMATICS—Staff.**
An introductory course designed to present the fundamental concepts of modern Mathematics. Topics included are: logic and the nature of mathematical proof, the numbers system, groups, Boolean Algebra, and functions. Students will be placed in sections according to their mathematical background and interests.
14. **INTRODUCTION TO STATISTICS—Mr. Bidwell and Mr. McNary.**
Tabular and graphic methods, frequency distributions, measures of central tendency, dispersion and correlation, tests of significance, probability and classical distributions, sampling. Lectures and computing laboratory. Prerequisite: Mathematics 11.
- 15, 16. **ELEMENTARY CALCULUS WITH ANALYTIC GEOMETRY—Staff.**
Prerequisite for Mathematics 16: Mathematics 11 or 15 or consent of the instructor.
- 21, 22. **CALCULUS AND MATRICES—Mr. Brooks and Mr. Solomon.**
Prerequisite: Mathematics 16 or consent of the instructor.
31. **DIFFERENTIAL EQUATIONS—Mr. Bidwell.**
Methods of solution of the standard types of ordinary differential equations with applications to problems in physical science. Prerequisite: Mathematics 21, 22.
32. **ADVANCED CALCULUS—Mr. Brooks.**
Elementary topological properties of Euclidean space; applications to real functions; Jacobians and the implicit function theorem; theorems of Green, Gauss and Stokes; introduction to complex function theory. Prerequisite: Mathematics 21, 22.
33. **MODERN ALGEBRA—Mr. Solomon.**
Finite dimensional vector spaces; the ring of linear transformations; study of the invariant subspaces of a linear transformation and reduction to canonical form. Emphasis will be on the geometry of the vector space and applications will be made to the theory of matrices. Prerequisite: Mathematics 21, 22.
Offered in 1960-61 and alternate years.
34. **MODERN ALGEBRA—Mr. Solomon.**
This course will provide an introduction to modern abstract algebra; the theory of groups, rings and fields. Examples to illustrate the theory will be drawn from Mathematics 33. Prerequisite: Mathematics 33.
Offered in 1960-61 and alternate years.
35. **MODERN GEOMETRY—Mr. Solomon.**
Development of affine and projective geometry from the axioms of incidence and the theorem of Desargues. Coordinates in affine and projective geometry. Synthetic plane projective geometry, including the study of projectivities on a line, collineations in the plane and the projective theory of conics. Prerequisite: Mathematics 21, 22.
Offered in 1961-62 and alternate years.
36. **MODERN GEOMETRY—Mr. Solomon.**
Topics in geometry will be selected from one or two of the following: real projective geometry, finite projective planes, algebraic geometry, algebraic topology. Prerequisite: Mathematics 35.
Offered in 1961-62 and alternate years.

41. CLASSICAL FIELD PROBLEMS OF MATHEMATICAL PHYSICS—Mr. Green.
(Also called Physics 41.)

Vector and tensor methods are employed to show the underlying mathematical similarities of field problems in gravitation, hydrodynamics, transport phenomena, and hydromagnetics. Prerequisite: Physics 13-14. Mathematics 31 must be taken previously or concurrently.

Offered in 1961-62 and alternate years.

42. BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS—Mr. Green.

(Also called Physics 42.)

Expansions in orthogonal functions, perturbation theory, calculus of variations, and integral transforms are employed to solve boundary value problems in heat conduction, acoustics, optics, and electromagnetic theory. Prerequisite: Mathematics 31; Physics 13-14.

Offered in 1961-62 and alternate years.

63. ANALYSIS—Mr. Brooks.

Topics in analysis will be selected from one or two of the following: complex function theory, measure and integration, normed linear spaces, point set topology. Prerequisite: Mathematics 31, 32.

81 or 82. SPECIAL TOPICS—Philips visitors and members of the Department.

Project courses involving wide reading in the literature, and presentation of papers for group discussion. The content varies from year to year to suit the needs of advanced students. The course may be repeated for credit with change of content.

Music

ASSOCIATE PROFESSOR WILLIAM H. REESE, *Chairman*

ASSISTANT PROFESSOR JOHN H. DAVISON

THE COURSES offered in Music have as their objectives (1) the mastery of music materials and theory through the disciplines of counterpoint, harmony, and analysis, and subsequently (2) the stimulation of the creative energies of the student through musical composition, (3) a knowledge of the styles and literature of a great art with its interrelation of trends, influences, aesthetic principles, personalities and creative processes in musical creation over the centuries, and (4) the development of perceptive listening and refined hearing in connection with the aims stated above. The furthering and strengthening of the disciplines of music and of music history is of value both to the general student and to the student with specialized musical interest and talent. For the latter, instruction in instrument or voice can be arranged, but without the granting of academic credit. Advanced and specialized work in musicology is available in the form of supplementary courses at the neighboring colleges

and university. At Haverford the program seeks in part to stimulate free composition in the vocal and instrumental forms with a view to public performance of a successfully completed work.

Major Requirements

A rounded course of study of music includes (1) work in theory, possibly embracing composition, (2) the study of music history, and (3) direct expression in music through the medium of instrument or voice. The music major will work in both academic fields of theory and history, specializing in one of them.

Required courses: For specialization in music theory and composition: Music 11 or 12, 13-14, 23, 24, 31 or 32, 81, 82. For specialization in music history: Music 11 or 12, 13-14, 23 or 24, 31, 32, 81, 82.

Supporting courses are to be arranged in such related fields as the humanities, history, language, and history of art as may be approved by the department.

In addition the music major is expected to reveal a proficiency and interest in instrumental playing and/or choral singing to the degree of participating actively in public performances from time to time during his college career. This will assure his having a direct experience with the living practice of a creative art.

The comprehensive examination for majors will consist of:

For those specializing in music theory and composition: (1) the completion by the candidate of a musical composition for instruments or voices in one of the larger forms, (2) an examination in music history, (3) a small composition, theoretical analysis and exercises to be completed during the examination period.

For those specializing in music history: (1) an examination in music history, (2) analysis of a work and other exercises involving theoretical musical knowledge, (3) the completion of a paper on an assigned subject in music history.

Requirements for Honors

The Honors candidate must perform satisfactorily in all required courses for music majors, and submit (a) in the case of specialization in composition, an orchestral composition of considerable stature showing creative talent as well as technical craftsmanship, and hence worthy of a public performance, or (b) in the case of specialization in music history, a successfully completed project in musicological research, demonstrating mastery of the tools of musicological research and involving original thought, and showing ability in the creative interpretation of assorted materials bearing on a specific subject.

11. INTRODUCTION TO MUSIC HISTORY—Mr. Reese.

A study of the principal forms of musical literature of the 17th, 18th, and 19th centuries. No previous knowledge of music is required.

12. SURVEY OF MUSIC HISTORY—Mr. Davison.

A historical survey of the development of musical thought from the plainsong era to contemporary idioms. This course complements Music 11, but may be taken without it. No prerequisite.

13-14. ELEMENTARY MUSIC THEORY—Mr. Davison.

The basic materials of music—melody, scales, intervals, chords, meter and rhythm. Counterpoint in two and three parts and harmony in four parts will be studied and implemented by ear-training, dictation, and sight-singing. Previous instruction or experience in some aspect of music is desirable.

23, 24. ADVANCED THEORY AND COMPOSITION—Mr. Davison.

Composition in styles of the past and present. Students will proceed on an individual basis, advancing from smaller to larger forms as they are able. Idiomatic use of voices and instruments will be discussed. Successful student compositions will be performed at public work-shop concerts. Prerequisite: Music 13-14 or the equivalent.

31, 32. SEMINARS IN MUSIC HISTORY—Mr. Reese.

The detailed study of certain epochs in music history or of the works of individual composers having special significance in the history of music. The content of Music 31, 32 will be altered from year to year so that a diversity of subject matter will be available. It may be repeated, for credit, with change of content. Prerequisite: Music 11 or 12 or the equivalent.

Topics for 1960-61: Music 31. A history of the symphony.

Music 32. Music of the Baroque era.

81, 82. PROJECTS IN MUSIC—Mr. Reese and Mr. Davison.

Philosophy

PROFESSOR DOUGLAS V. STEERE, *Chairman*

ASSOCIATE PROFESSOR FRANCIS H. PARKER

ASSISTANT PROFESSOR PAUL J. R. DESJARDINS

VISITING ASSISTANT PROFESSOR VICTOR GOUREVITCH

LECTURER HENRY J. CADBURY

THE COURSES in Philosophy are intended first of all to acquaint students with the major currents of interpretation and reflection upon the recurring problems, such as the nature of man, the nature of the universe, the nature of the processes by which man apprehends and responds to that universe. Since these problems underlie the work of literature and furnish it with many of its most basic themes; since they underlie the presuppositions of political, sociological, and economic thought; since they reappear in the frame in which every thoughtful scientist works and affect not only the use to which his results will be put, but his very method, just as his methods have influenced in turn the formulation of the problems, the study of philosophy is an important tool in connection with work in any of these fields.

In the second place the courses in philosophy are designed to assist in integrating material presented in literature, history, the social and natural sciences, in art, and in religion in order to assist the student in drawing

together what he has learned, and in approaching a more responsible, intentional, and intelligent world view with which to confront life.

The courses are so planned as to require such orientation as would be secured in either Philosophy 11 (which examines in an elementary way the great problems man confronts) or Philosophy 21-22 (which deals with these same problems as it presents the great classical philosophical thinkers chronologically) before proceeding to the more specialized philosophical disciplines such as ethics, aesthetics, logic, political philosophy, philosophy of science, philosophy of religion, and to more specialized studies of certain philosophical thinkers.

Major Requirements

Philosophy 12, 21-22, 63-64 and four other half-year courses in Philosophy. Philosophy 100.

Four half-year courses in related fields to be arranged in conference with the Major Supervisor.

A comprehensive examination in two parts; three hours on the history of philosophy and three hours on one optional field selected from topics in philosophy since 1800, or religious thought.

Requirements for Honors

Honors in Philosophy are awarded for a prearranged special study of the works of some major philosopher or work on a major philosophical problem. The usual method of testing such study is by a three hour written examination and an oral examination, but a thesis may be presented in place of the written examination. Honors will not be given unless the candidate has an average of 85 or better in the regular comprehensive examinations in Philosophy, and High Honors require a minimum grade of 90.

11. INTRODUCTION TO PHILOSOPHY—Mr. Steere, Mr. Parker, and Mr. Desjardins.

An understanding of the nature and functions of philosophy and its relations to other fundamental human interests such as science, religion, and art is sought through a consideration of representative philosophical problems.

12. ETHICS—Mr. Parker and Mr. Desjardins.

A study of (1) conflicts of ethical values involved in contemporary life; (2) certain classical ethical devices for resolving those conflicts; (3) the role of the individual and of the group in the realization of ethical values. Case material drawn from contemporary situations and from literature will be widely used. Discussions, lectures, and papers. Prerequisite: One semester-course in Philosophy.

14. LOGIC—Mr. Parker.

The principles of valid inference and their application to reasoning in everyday life, and in the sciences; the syllogism and other types of formal reasoning, the nature of proof, the detection of fallacies; introduction to the logic of scientific methods and to contemporary developments in symbolic logic.

- 21-22. **HISTORY OF PHILOSOPHY**—Mr. Steere, Mr. Parker and Mr. Desjardins.
A study of the development of philosophy with special reference to Plato, Aristotle, Descartes, Locke, Berkeley, Hume, Spinoza, Leibnitz, Kant, and Hegel. First-hand acquaintance with selected writings of these philosophers; reports, lectures, and class discussions.
23. **CLASSICS OF RELIGIOUS LITERATURE**—Mr. Steere.
A study which will include such books as Augustine, *Confessions*; Benedict's *Rule*; Meister Eckhart, *Sermons*; *Little Flowers* of St. Francis of Assisi; Thomas à Kempis, *Imitation of Christ*; Francis de Sales, *Introduction to the Devout Life*; Pascal, *Thoughts*; John Woolman, *Journal*; Soren Kierkegaard, *Purity of Heart*; Von Hügel, *Letters*; Bernanos, *Diary of a Country Priest*; Kelly, *Testament of Devotion*; Paton, *Cry, the Beloved Country*.
Offered in 1960-61 and alternate years.
24. **HISTORY AND PHILOSOPHY OF QUAKERISM**—Mr. H. J. Cadbury.
The Quaker Movement is studied in relation to other intellectual and religious movements of its time, and in relation to problems of social reform. The development of the dominant Quaker conception is traced to the present day and critically examined. The course is designed for non-Friends as well as for Friends. Not open to Freshmen.
26. **AESTHETICS**—Mr. Desjardins.
A study of the philosophical principles underlying the creative and appreciative aspects of art. Prerequisite: One semester-course in Philosophy.
Offered in 1961-62 and alternate years.
28. **PHILOSOPHY OF RELIGION**—Mr. Steere.
A study of the basic problems which the practice and claims of religion present to a reflective mind. Not open to Freshmen. Prerequisite: Philosophy 11 or 21-22.
Offered in 1960-61 and alternate years.
- 29b. **SOME ASPECTS OF RELIGIOUS LIFE AND LITERATURE SINCE THE REFORMATION**—Mr. Steere.
Thomas More and the Erasmus Tradition in England; Ignatius of Loyola and the Society of Jesus; Theresa of Avila and Spanish Mysticism; Isaac Penington and the mysticism of the Quakers; John Wesley and the Evangelical Revival; John Henry Newman and the Oxford Movement; William Temple and the ecumenical movement; Albert Schweitzer and the mission outreach; Rufus M. Jones and the religious situation of our time. Lectures, reports, class discussions.
Offered in 1961-62 and alternate years.
33. **NINETEENTH CENTURY THINKERS**—Mr. Steere.
Selected writings of Schopenhauer, Nietzsche, Tolstoy, and Bergson. Prerequisite: Philosophy 11 or 21-22.
34. **RECENT AND CONTEMPORARY PHILOSOPHY**—Mr. Parker.
A study of some of the outstanding recent and contemporary philosophical movements in Europe and America. Prerequisite: Philosophy 21-22.
36. **HISTORY AND PHILOSOPHY OF SCIENCE**—Mr. Green.
(See Physical Science 36 under General Courses.)

37. **PLATO**—Mr. Desjardins.
A study of a selected group of the dialogues. Prerequisite: Philosophy 21 or consent of the instructor.
Offered in 1960-61 and alternate years.
38. **ARISTOTLE**—Mr. Desjardins.
A study of a selection of the primary works of Aristotle. Prerequisite: Philosophy 21 or consent of the instructor.
Offered in 1960-61 and alternate years.
39. **KANT**—Mr. Desjardins.
Study of the primary texts with special emphasis on the First and Third Critiques. Prerequisite: Philosophy 22 or consent of the instructor.
Offered in 1961-62.
- 63-64. **PHILOSOPHICAL SEMINAR**—Mr. Steere and Mr. Parker.
Specialized work in some restricted field of philosophic or religious thought is undertaken, the precise subject depending upon the needs of the students and the general interests of the group. Primarily designed for Seniors majoring in Philosophy and for Graduate students. Prerequisite: Philosophy 21-22; Majors unless by special arrangement. Limited to ten students.
- 81, 82. **PROJECT COURSES**—Individual consultation; supervised independent reading and research. Mr. Steere, Mr. Parker, and Mr. Desjardins.

Physical Education

PROFESSOR ROY E. RANDALL, *Chairman*

PROFESSOR WILLIAM DOCHERTY, JR.

ASSISTANT PROFESSOR ERNEST J. PRUDENTE

COURSES in Physical Education are arranged in accordance with the plan for all-year physical training in the Freshman, Sophomore, and Junior years. The aim of this plan is to make possible active participation in athletics for the majority of students at Haverford College, with emphasis on the sports with carry-over value. Each student is required to take, during his first three years, nine terms (fall, winter, spring) of Physical Education or of certain courses in the Arts and Service Program (see pp. 101-104), with a minimum of six terms in Physical Education: three in the Freshman year, two in the Sophomore year, and one in the Junior year.

Evidence of satisfactory physical condition is required by the department before any student is permitted to participate in any aspect of the program. A swimming test is given to all entering students. This test must be passed by all students before graduation. Swimming instruction is given in the gymnasium pool during the fall and spring.

The outdoor facilities include: Walton Field for football and track, with a 440-yard oval and a 220-yard eight lane straight-away cinder track; the

Class of 1888 and Merion Fields for soccer, both of which are used for baseball and softball in the spring; a skating pond; Cope Field for cricket; an athletic field presented by the Class of 1916; a baseball field presented by the Class of 1922, used also for soccer in the fall; and thirteen tennis courts, three of which are all-weather. There are two dinghies available during the spring and fall for those (with certain exceptions) who wish to sail.

Indoor facilities include the Gymnasium and the Alumni Field House. The basement of the gymnasium contains dressing rooms, showers, lockers, a swimming pool, wrestling room and training room. Through the generosity of the Class of 1928 it has been possible to provide additional locker and dressing facilities, a new stock room, and a laundry and drying room. A regulation basketball court is on the main floor, with hand ball and badminton courts. On the upper floors are dressing facilities for officials and instructors, and department offices.

The Alumni Field House, donated by Alumni and friends of the College, became available in 1957 and provides ideal facilities for the further development of the Athletic program. This "indoor playing field" includes a 7-lap track, with areas for field events, a dirt area 120' by 120' for outdoor events under cover, a batting cage for baseball and cricket, nets for golf, a wooden area 120' by 120' with two basketball courts, two tennis courts, and seating capacity for 1000 spectators.

Physics

ASSOCIATE PROFESSOR AARON LEMONICK, *Chairman*

ASSOCIATE PROFESSOR FAY AJZENBERG-SELOVE, *Acting Chairman*

VISITING ASSOCIATE PROFESSOR THOMAS H. WOOD

LECTURER THOMAS A. BENHAM

ASSISTANT SAMUEL M. V. TATNALL

COURSES in Physics are intended to acquaint students with fields of knowledge important to our civilization, to train them in analytical thinking, to give them an appreciation of scientific methods, and to help them gain first-hand experience and insight into the methods of experimental investigation. For the student with professional aims in science, the Department offers courses leading to a strong major in Physics which equips a man to enter graduate school.

Students of astronomy, experimental biology, chemistry, engineering, mathematics, medicine and other sciences will find the foundation offered by Physics 13, 14 and Physics 21 of great value. Physics 13, 14 is ordinarily taken in the Sophomore year after Freshman mathematics but Freshmen with adequate

preparation in High School mathematics may be admitted after consultation with the instructor. Students who plan to major in Physics are advised to take Physics 13, 14 in their Freshman year.

Sound knowledge of mathematics is essential. Ability to understand and use the calculus is assumed in most of the advanced courses. The Department desires to cultivate in its Major students independence of thought and initiative at progressive levels of maturity; to that end, a sequence of courses following Physics 13, 14 has been arranged, culminating in Physics 81, 82. The latter offers opportunity to conduct an extended individual investigation with training in the mastery of theory and experiment, and with emphasis upon independent work and the ability to express oneself clearly both orally and in writing on the subject of investigation. Physics 81, 82 is not, however, limited to students majoring in Physics; it may be elected by others after consultation.

Major Requirements

Physics 13, 14, 21, 28, 33-34, 81, 82, 100 and two other semester courses in Physics. Mathematics through differential equations.

A written comprehensive examination on physics treated comprehensively, designed to test each individual's ability to correlate his knowledge.

Students who desire to combine a Major in Physics with advanced work in some other related department may do so by special arrangement between the two departments concerned. In such cases a program is mapped out with some modification of the requirements normally expected of a Major in a single department.

Requirements for Honors

The granting of Honors in Physics will be based upon excellence (an average of 85 or better) in course work, the quality of performance in the Senior project course (Physics 81, 82), the results of an oral examination on the thesis and related topics in Physics 82, and the comprehensive examinations (Physics 100). High Honors in Physics will be awarded only to those majors who have performed in a superior fashion in meeting all of these requirements.

13, 14. GENERAL PHYSICS—*Four hours, including one laboratory period a week.*
Mr. Wood.

This is the basic course for work in physics, engineering, chemistry or other sciences. Mechanics, sound, heat, electricity, and light are studied with the help of problems, laboratory experiments, lecture demonstrations, and discussion. This course is commonly taken in the Sophomore year, but qualified Freshmen are admitted after consultation. Algebra and trigonometry are essential. Prerequisite: Mathematics 11 and 16, or consent of the instructor.

21. ATOMIC AND NUCLEAR PHYSICS—*Four hours, including one laboratory period a week.* Mrs. Selove.

A course of lectures, experiments, discussion and reading emphasizing developments in modern physics: the fundamental constants of physics, topics in relativity,

low temperature and solid state physics, an introduction to quantum mechanics, optical and X-ray spectroscopy and other atomic phenomena. In addition nuclear phenomena will be discussed; nuclear reactions, accelerators and detectors of nuclear particles, nuclear models and nuclear energy. Prerequisite: Physics 13, 14 and Mathematics 16, or consent of the instructor.

25. **PHYSICAL OPTICS AND ATOMIC SPECTRA**—*Four hours, including one laboratory period a week.* Mr. Lemonick.

A study of the principles of physical optics illustrated by such phenomena as interference, diffraction and polarization, and including an introduction to Maxwell's Equations. Also a treatment of spectroscopy, the study which furnishes information as to structure of atoms. Prerequisite: Physics 13, 14 and Mathematics 21, 22.

Offered in 1961-62 and alternate years.

28. **MECHANICS**—Mrs. Selove.

Analytical mechanics, treating the statics, kinematics, and dynamics of particles and rigid bodies. Discussion and problems on the application of calculus, differential equations and vector methods to mechanical systems, including an introduction to Lagrange's equations. Prerequisite: Physics 13, 14; Mathematics 21, 22 must be taken previously or concurrently.

33-34. **ELECTRICITY AND MAGNETISM**—*Four hours, including one laboratory period a week.* Mr. Benham.

A course of lectures, readings, and laboratory experiments designed to familiarize the student with precision electrical measurements. Solutions of electrostatic problems, Gauss's theorem, potential, capacitance, magnetic circuits, transient and alternating current, and the laws of the electromagnetic field, are among the topics treated. Prerequisite: Physics 13, 14 and Mathematics 21, 22; Mathematics 31 must be taken previously or concurrently.

41. **CLASSICAL FIELD PROBLEMS OF MATHEMATICAL PHYSICS**—Mr. Green.
(Also called Mathematics 41.)

Vector and tensor methods are employed to show the underlying mathematical similarities of field problems in gravitation, hydrodynamics, transport phenomena, and hydromagnetics. Prerequisite: Physics 13, 14; Mathematics 31 must be taken previously or concurrently.

Offered in 1961-62 and alternate years.

42. **BOUNDARY VALUE PROBLEMS OF MATHEMATICAL PHYSICS**—Mr. Green.

(Also called Mathematics 42.)

Expansions in orthogonal functions, perturbation theory, calculus of variations, and integral transforms are employed to solve boundary value problems in heat conduction, acoustics, optics, and electromagnetic theory. Prerequisite: Mathematics 31; Physics 13, 14.

Offered in 1961-62 and alternate years.

43. **ELECTRONICS—CIRCUIT THEORY**—*Four hours, including one laboratory period a week.* Mr. Benham.
This course includes the study of resonant circuits, coupled circuits, filter networks and impedance matching. Laboratory experiments are designed to give the student experience in the relation of theory to practice. Prerequisite: Physics 33-34, or Engineering 33-34, or consent of instructor at spring registration.
44. **ELECTRONICS—VACUUM TUBE CIRCUITS**—*Four hours, including one laboratory period a week.* Mr. Benham.
Electron theory, study and application of vacuum tubes, and problems pertaining to design and analysis of typical circuits employing them. Prerequisite: Physics 33-34 or Engineering 33-34, or consent of instructor.
45. **ASTROPHYSICS**—Mr. Green.
(See Astronomy 45.)
Offered in 1960-61 and alternate years.
46. **ASTROPHYSICS**—Mr. Green.
(See Astronomy 46.)
Offered in 1960-61 and alternate years.
48. **MODERN PHYSICS**—Mr. Lemonick and Mrs. Selove.
The physics of photons, nucleons, nuclei and elementary particles; their behavior and interactions. Students will carry out modern physics laboratory projects under supervision. Prerequisite: Physics 21, 28, 33-34.
Not offered in 1960-61.
- 81, 82. **PHYSICS SEMINAR**—Mrs. Selove, Mr. Benham, and Mr. Selove.
Individual work in selected fields of investigation. Each student pursues comprehensive reading and sustained experimental work on a problem. Weekly meetings are held with the members of the Department to discuss the progress in each field of investigation. Each student becomes familiar with problems other than his own and gains experience in presenting his own work. Students who major in Physics are expected to take two semesters, but the course is not restricted to Major students. Qualified Juniors or Seniors may, by permission, elect either one semester or two. Also, the course may be repeated for credit with change of content. The granting of Honors depends heavily upon performance in this course.

Political Science

PROFESSOR HERMAN M. SOMERS, *Chairman*

ASSOCIATE PROFESSOR ALFRED DIAMANT, *Acting Chairman*

ASSISTANT PROFESSOR HARVEY GLICKMAN

VISITING PROFESSOR PAUL J. MISHKIN

VISITING ASSOCIATE PROFESSOR PETER BACHRACH

VISITING ASSISTANT PROFESSOR CHARLES E. GILBERT

THE POLITICAL SCIENCE CURRICULUM is designed to give students an understanding of political organization and political forces in modern society, to provide knowledge and a basis for insight and judgment on the problems

involved in the relationship of the individual to government and of governments to one another. The broad areas of study include: analysis of political theory in relation to its institutional environment; comparison and appraisal of different types of governments and political organization; American political institutions; and problems of international relations.

The tools of analysis include theory and experience. The purposes and the actual workings of political institutions and political groups are appraised. In advanced courses, emphasis is placed upon individual research and analysis—practice in location, organization, and presentation of data, and independent judgment.

The courses are designed primarily for a liberal arts education and are intended to create intelligent and lasting interest and participation in the formulation of public policy. The training will also serve the practical needs of those men contemplating professional careers which involve an understanding of modern government, such as law, journalism, and the public service.

Men majoring in political science are expected to understand the relationship of this field to other social studies and also the purposes and methods of the social sciences as a whole. They are thus expected to take supporting courses in economics, history, and sociology.

Major Requirements

Political Science 11, 12, and eight other courses in Political Science distributed among the areas of study indicated above.

Four approved semester courses in other social sciences.

A comprehensive examination covering the major fields of study. The comprehensive examination includes seminar participation.

Requirements for Honors

Candidates for Honors are required to submit a thesis of independent research or original theoretical analysis, and to pass an oral examination on the thesis as well as on general attainment in the field. The award of Honors will be determined on the basis of the thesis, the oral examination, quality of course work, and performance in the Senior comprehensive seminar and examinations. The thesis may obtain course credit by registration in Political Science 81 or 82.

11, 12. **FREEDOM AND CONTROL: Theory and Practice of Modern Government—Staff.**

A comparative analysis of selected foreign and American political institutions and policies with reference to their theoretical foundations. The first semester concentrates on the development of main currents of western political thought, studied primarily through the original works of theorists who had major influence in

shaping modern ideas and practice. Particular attention is given to the central issue of reconciling individual freedom with social control. The second semester examines the issues by comparing structure, administration, and policy in several countries.

23. **AMERICAN CONSTITUTIONAL DEVELOPMENT—Mr. Mishkin.**

A study of the development of the American constitution through judicial interpretation, related to the changing political, social and economic problems of the United States. Definitive Supreme Court cases shaping the course of American development will serve as the primary basis of study. Prerequisite: Political Science 11, 12.

Offered in 1960-61 and alternate years.

24. **AMERICAN FOREIGN POLICY**

A survey of the evolution of contemporary American foreign policy interests and critical analysis of the forces which shape policy. Emphasis is placed on research papers treating specific areas or issues. Prerequisite: Political Science 12.

Not offered in 1960-61.

27. **AMERICAN POLITICAL THOUGHT**

An approach to understanding the enduring significance of the American heritage through the study of outstanding political and social writings. Prerequisite: Political Science 11, 12.

Not offered in 1960-61.

31. **PARTIES, PRESSURES, AND PUBLIC OPINION—Mr. Diamant.**

A study of political parties, their organization and techniques, as an instrument of democratic government; the relationship of private associations and interest groups to the party system; the role of such associations in a democracy; and the struggle for power with relation to public opinion and theories of the public interest. Prerequisite: Political Science 11, 12.

34. **SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.**

(Also called Economics 34 and Sociology 34.)

A study of the economic and political problems encountered in attempts to cope with the hazards of modern industrial society, including unemployment, disability, illness, and old age. Primary attention is given to the American social security system. Alternative methods of prevention and alleviation, and their economic and social consequences, are examined. Prerequisite: Either Political Science 12, Economics 11 or Sociology 11.

Not offered in 1960-61.

38. **GOVERNMENT ADMINISTRATION AND PUBLIC POLICY—Mr. Diamant.**

A study of administration as a central element of contemporary society with special reference to the problems involved in the decision-making process; administrative theory and process in relation to the formulation and execution of public policy. The approach is analytical rather than descriptive and is based, in large measure, on case studies. Prerequisite: Political Science 11, 12.

Offered in 1960-61 and alternate years.

39. **GOVERNMENT AND BUSINESS—Mr. Hunter.**

(See Economics 39.)

41. THE SOVIET SYSTEM—Mr. Hunter.

(See Economics 41.)

43. POLITICAL BEHAVIOR—Mr. Glickman.

A study of the role of personality, culture, mass media of communication, leadership, voting behavior, and organizational influences upon political life. Prerequisite: Political Science 11, 12.

45. COMPARATIVE GOVERNMENT—Mr. Diamant.

An advanced, functional analysis of the political, social and economic institutions of contemporary European governments and the British Commonwealth. Emphasis is placed on the changing role of government in society, on the political and economic forms that have been developed to meet new needs, and on the impact of these new developments on traditional political theory. Prerequisite: Political Science 11, 12.

46. POLITICS AND GOVERNMENT IN DEVELOPING AREAS—Mr. Glickman.

A study of political ideologies, processes and institutions in selected areas of Africa, Asia, Latin America and the Middle East. The impact of the West on traditional societies, the growth and effect of nationalism, and the problems of stability and popular government are emphasized. Prerequisite: Political Science 11, 12.

49b. THE POLITICS OF LOCAL GOVERNMENT—Mr. Gilbert.

An analysis of the political and administrative issues arising out of the changing character of community government. Problems of obsolete political boundaries, the development of independent multi-governmental authorities, the proliferation of quasi-governmental units, and the expanding conflicts and shifting relations of local, state and federal governments are examined. Seminar. Limited enrollment. Prerequisite: Political Science 11, 12.

53, 54. INTERNATIONAL RELATIONS: ECONOMIC AND POLITICAL—Mr. Bell.

An examination of the major factors which condition international relations, with special emphasis on political and economic aspects. The first semester focuses on physical and human resources, basic political and economic concepts, and consideration of the relation of moral and legal precepts to international politics, with special reference to the interaction of these factors prior to World War II. The second semester is devoted to an analysis of major international developments since 1945, including economic development, settlement of disputes, control of armaments. This is followed by individual or group projects. Prerequisite: Economics 11, 12 and Political Science 11, 12, or permission of the instructor.

56. INTERNATIONAL ORGANIZATION

An analysis of the development of international institutions and their role in security and social economic fields. Particular attention is given to case studies in United Nations operations and consideration is given to proposals for regional and world government. Prerequisite: Political Science 11, 12.

Not offered in 1960-61.

64. MODERN POLITICAL AND SOCIAL THEORY—Mr. Diamant.

A study of leading political doctrines which have had a major influence in shaping the issues and conflicts of the modern world. Prerequisite: 1 year of Political Science, Economics, or Sociology.

81, 82. INDEPENDENT PROJECT COURSES—*Individual consultation; supervised independent reading and research.* Members of the Department.

Research papers and oral reports on special topics based upon the individual interests of advanced students. Enrollment only by permission of the instructor. Theses of candidates for Honors may be written for credit in this course. May be taken as semester or year course by arrangement with the instructor.

Psychology

ASSOCIATE PROFESSOR DOUGLAS H. HEATH, *Chairman*

ASSISTANT PROFESSOR HOWARD B. RANKEN, *Acting Chairman*

ASSISTANT PROFESSOR DAVID ROSENHAN

THE PSYCHOLOGY PROGRAM is designed to give the student an understanding of the empirical approach to the study of human behavior, a knowledge of the psychological principles which have emerged from empirical research, and an acquaintance with the problems to which contemporary research is directed. The student is encouraged to make active use of his knowledge in two ways: first by developing through laboratory courses a working familiarity with the experimental method as applied in psychology, ordinarily culminating in an individual research project in the senior year; second, by attempting to apply known psychological principles to an understanding of the behavior of individuals and groups in all areas of human endeavor.

Major Requirements

A major program in Psychology includes twelve semester courses distributed as follows: Psychology 12, 23 or 24, 25, 27, 33 or 38, 100 and two additional Psychology courses other than Psychology 81 and 82; Mathematics 14 or its equivalent; and three courses in related areas chosen in consultation with the Major Adviser from the offerings of other departments, including at least one course in the Sociology and Anthropology Department. The additional Psychology courses may include Bryn Mawr courses Psychology 301a, Physiological Psychology, and Psychology 305b, Comparative Psychology.

Students contemplating a Psychology major are advised to take one advanced course in their Sophomore year and to plan to complete their basic laboratory work by the end of their Junior year.

The comprehensive examination will test the student's mastery of the core areas of systematic psychology. Such areas include methodology and statistics, learning, cognitive processes, motivation, social psychology, personality theory and historical developments in psychology. A bibliography of basic readings in these areas is available upon request.

Requirements for Honors

The award of Departmental Honors signifies that a student has maintained a consistently high standard of performance in the work of his major program, has completed a substantial independent research project of high quality, and has passed with distinction a written and, at the discretion of the department, an oral comprehensive examination on his work in Psychology. Honors candidates should plan to take at least one semester of Psychology 81 or 82 prior to the spring semester of their Senior year.

12. GENERAL PSYCHOLOGY—Mr. Ranken and Mr. Rosenhan.

(Also called Sociology 12.)

An introduction to basic concepts and methods in the fields of learning, cognitive processes, personality, and social psychology. Emphasis will be placed on independent reading, papers, and project work throughout the course.

23. PRINCIPLES OF LEARNING—*Three class hours and laboratory.* Mr. Ranken.

A consideration of important concepts and research findings in the psychology of learning, organized around a systematic analysis of the learning process and a discussion of theoretical issues of historical or contemporary importance. The relation of learned and unlearned behavior, the neurophysiological basis of learning, probabilistic theories of learning, the role of learning in language behavior, and the implications of learning principles for educational practice are also discussed. Prerequisite: Psychology 12.

24. COGNITIVE PROCESSES—*Three class hours and laboratory.* Mr. Ranken.

A discussion of important concepts and experimental findings in the study of perceptual processes, language, and thinking, organized in terms of a systematic analysis of the physiological and behavioral mechanisms involved. Such related questions as the role of learning and motivation in perception, the meaning of "meaning", and the contribution of education to the ability to think are also considered. Prerequisite: Psychology 12.

25. PRINCIPLES OF MOTIVATION—*Three class hours and laboratory.* Mr. Rosenhan.

Following an analysis of the major components of the motive sequence, the course will intensively review the experimental literature on sexual behavior, anxiety, aggression, and the achievement need. The basic experimental methods for measuring need states will be illustrated in the laboratory. Independent experimental research will be stressed. Prerequisite: Psychology 12.

26. HUMAN RELATIONS

(Also called Sociology 26.)

Problems of interpersonal, intra-group, and inter-group relationships will be examined within the framework of principles of social psychology. Prerequisite: Psychology 12.

Not offered in 1960-61.

27b. SOCIAL PSYCHOLOGY—Mr. Rosenhan.

(Also called Sociology 27b.)

Following an introduction to the basic methods used for collecting social psychological data, the course will concentrate on the formative effects of social organiza-

tion on personality, group dynamics, problems of communication, and the effects of mass media on attitude change. Prerequisite: Psychology 12.

33. THEORIES OF PERSONALITY—Mr. Rosenhan.

The personality theories of Freud, neo-analysts, Rogers and others will be studied by extensive readings from original sources. Class discussion and papers will concentrate on clarifying and evaluating the merits of the different theories. Prerequisite: Psychology 12.

34. DEVELOPMENTAL PSYCHOLOGY—Mr. Heath.

The seminar will be organized around the major developmental problems of childhood and adolescence and the cognitive control modes used to master these problems. Consideration will also be given to the psychological aspects of marriage, religion, and old age. Prerequisite: Psychology 33 and consent of the instructor. Not offered in 1960-61.

38a. SYSTEMS AND THEORIES OF PSYCHOLOGY—Mr. Ranken.

A discussion of some basic conceptual issues in psychology and of several influential systematic viewpoints. Among the problems considered are the underlying assumptions of science, the relation between experience and behavior, and the implications of the assumption that behavior is causally determined. The systematic formulations reviewed include those of Hull, Tolman, Skinner, Hebb, Lewin, and the Gestalt psychologists. Prerequisite: Psychology 12 and either 23, 24, or 25.

81, 82. INDEPENDENT PROJECT COURSE—Mr. Ranken and Mr. Rosenhan.

This course is designed for those students who wish to plan and carry out an experimental research project or empirical investigation in an area of special interest. This course may be repeated for credit with a change in content. Admission to course by consent of the Department.

DEVELOPMENTAL READING—Mr. F. D. Comfort.

This program offers an opportunity for students to improve their reading proficiency. Few students, if any, have realized their real potentiality in this field. Through a series of conferences, methods of developing higher level reading skills are explored. Any student who is willing to concentrate upon it, while reading for his various subjects, will find that he can increase his speed and comprehension. Also, by giving thought to the different purposes of reading, and practicing methods appropriate to each purpose, he may increase his adaptability, making each type of reading more effective. No credit.

Romance Languages

ASSOCIATE PROFESSOR MARCEL M. GUTWIRTH, *Chairman*

ASSOCIATE PROFESSOR MANUEL J. ASENSIO

ASSOCIATE PROFESSOR BRADFORD COOK

LECTURER JACQUES MARIES

ADMISSION of new students to all French and Spanish courses except French 11-12 and Spanish 11-12 is contingent upon placement examinations administered by the Department prior to the opening of such courses.

Opportunity is given to students who complete French 11-12, Spanish 11-12 or Spanish 13-14 with distinction to advance rapidly into higher courses by passing a special examination in September on a prescribed program of vacation study.

Residence in the French and Spanish Houses and participation in the Cercle français and Club español afford an opportunity for supplementary oral practice.

Students who might profitably spend their Junior year in France or Spain are encouraged by the Department to apply for admission to the institutions sponsoring foreign study groups.

Students majoring in Romance Languages are encouraged to spend a summer in France or in a Spanish speaking country. Foreign summer schools and projects sponsored by the American Friends Service Committee and other organizations offer exceptional opportunities in this regard.

FRENCH

The program of French courses offers students an opportunity:

- 1) to learn to read, understand, speak and write French. In French 11-12 emphasis is placed on the ability to read and pronounce French. In French 13-14 stress is laid on teaching students to understand spoken French. French 21 and 22 are planned for the benefit of students interested in learning to speak and write French felicitously;
- 2) to achieve an understanding of the basic attitudes implicit in a foreign culture which has exerted a profound influence in the shaping of western civilization;
- 3) to read with an increasing awareness of philosophical, moral, aesthetic and social implications the most significant French literary works.

Major Requirements

French 23-24, 25, 26, 81 or 82, and 100.

Supporting courses to be arranged in individual conference with the Major Supervisor.

Comprehensive Examination.

Requirements for Honors

Honors in French will be awarded on the basis of consistently distinguished work in the literature courses—including at least one project course—and of a grade of 90 or better on the comprehensive examinations. High Honors will be determined by a further oral examination.

11-12. INTRODUCTION TO FRENCH LANGUAGE AND THOUGHT—Mr. Cook and Mr. Mariès.

First semester: Study of those aspects of French grammar without a knowledge of which one cannot read French intelligently. Training in pronunciation. Second semester: Reading of authors who have concerned themselves with important problems. One class hour a week is devoted to translation, another to concentrated analysis of short texts, and the third to discussion of rapid reading.

13-14. THE FRENCH NATION—Mr. Gutwirth, Mr. Cook, and Mr. Mariès.

The purpose of the course is to acquaint the student with French civilization by making him familiar with the broad outline of French social, political, and literary history. Representative literary works are read, in conjunction with a standard French history text. Grammar review, *dictées*, short written compositions, classes conducted in French. Prerequisite: French 11-12 or the equivalent.

21. SPOKEN FRENCH—Mr. Mariès.

By individual conferences, class discussion, oral reports, the student's facility in handling the language orally is strengthened. The course focuses on the modern theatre, with play readings and *explications*. Grammar review, compositions in French. Students who plan to take this course are encouraged to make arrangements to live in the French House. Prerequisite: Special permission of the Department. Enrollment limited to twelve students.

22. FRENCH COMPOSITION—Mr. Mariès.

Class discussion of the contemporary French theatre with intensive practice in writing as well as speaking the language. Practice in literary translation. Prerequisite: French 21 or the equivalent.

23-24. CURRENTS OF FRENCH LITERATURE—Mr. Cook.

A study of the fundamental trends of literature from Humanism to Existentialism. Special emphasis is placed on the relationship of philosophical, social, and literary schools of thought. Although importance is attached to historical development, this course does not constitute a survey of French literature. Prerequisite: French 13-14 or the equivalent.

25, 26. A SYMPOSIUM OF SIGNIFICANT FRENCH WRITINGS—Mr. Gutwirth.

This course, while independent of French 23-24, is complementary to it. It consists of studying and discussing a limited number of masterpieces chosen from the whole range of French literature. Emphasis is placed on intrinsic value rather than on social and historical relationships. The list of works read is varied from year to year to suit the needs and interests of the students and of the teacher. Because of the change in content, students who have already taken this course may take it again for credit. Prerequisite: French 23-24, or 21, 22, or the equivalent.

81, 82. SPECIAL PROJECTS IN FRENCH LITERATURE—Mr. Gutwirth, Mr. Cook, and Mr. Mariès.

This course offers the student of French literature an opportunity to probe more deeply and more independently into a problem or into an area in which he is particularly interested. The nature of the course will therefore vary to suit the needs of each individual student.

SPANISH

The courses offered in Spanish are designed to give the students a thorough knowledge of the Spanish language and an understanding of Spanish and Spanish-American thought and culture. Elementary Spanish and Intermediate Spanish are primarily language courses, with emphasis on grammar, reading, and conversation. Even in these elementary courses the approach corresponds to the liberal tradition of the College, placing emphasis on the human value of the language, and its importance in international and continental solidarity and understanding. The elementary courses are followed by general courses in civilization and literature, as the basis for the more advanced courses covering special periods, works, and authors in Spanish and Spanish-American literatures.

Major Requirements

Spanish 21-22; 23-24, 81 or 82, and 100.

History of Spain and Spanish America, as a background for literature.

Supporting courses to be arranged in individual conference with the Major Supervisor.

Comprehensive Examination.

Requirements for Honors

Honors in Spanish are awarded to students who consistently show high quality work in their literature courses and undertake study beyond the normal requirements. Every Honors student must complete at least one project course. A minimum grade of 90 is required in the comprehensive examinations. High Honors are awarded on the basis of a further oral examination.

11-12. ELEMENTARY SPANISH—Mr. Asensio.

Grammar, with written and oral exercises; reading; thorough drill in conversation.

13-14. INTERMEDIATE SPANISH—Mr. Asensio

Review of grammar, with written and oral exercises; composition, reading and conversation. Prerequisite: Spanish 11-12 or the equivalent.

15-16. INTRODUCTION TO HISPANIC CIVILIZATION—Mr. Asensio.

Geographic, cultural, and historical background. Emphasis is laid on basic attitudes underlying the Spanish and Spanish-American culture pattern and contrasting with characteristic American attitudes. Lectures, reading, discussion, written reports. Prerequisite: Spanish 13-14 or the equivalent.

Not offered in 1960-61.

21-22. INTRODUCTION TO SPANISH LITERATURE—Mr. Asensio.

A survey of Spanish literature from the beginnings to modern times; lectures, written and oral reports. Prerequisite: Spanish 13-14 or the equivalent.

Offered in 1960-61 and alternate years.

- 23-24. INTRODUCTION TO LATIN-AMERICAN LITERATURE—Mr. Asensio.
A survey of Latin-American literature from the Colonial period to modern times; lectures, written and oral reports. Prerequisite: Spanish 13-14 or the equivalent. Offered in 1961-62 and alternate years.
33. SPANISH LITERATURE OF THE GOLDEN AGE—Mr. Asensio.
Cervantes, Lope de Vega, Tirso de Molina, Calderon; lectures, written and oral reports.
Not offered in 1960-61.
- 81, 82. SPECIAL TOPICS IN SPANISH LITERATURE—Mr. Asensio.
Reading and lectures; written and oral reports. This course may be repeated, with change of content, for full credit.

Russian

ASSOCIATE PROFESSOR FRANCES DE GRAAFF, *Chairman*

THE COURSES in Russian are designed to offer the students the opportunity to learn to read and speak Russian and to achieve an understanding of the thought and culture of pre-revolutionary as well as contemporary Russia. Russian 11-12 and 21-22 are primarily language courses. The elementary course teaches the basic grammar and enough vocabulary to enable the student to speak and understand simple Russian. The intermediate course introduces the student to the Russian literary language; also some newspaper articles and other contemporary material are read.

Students who have completed Russian 21-22 can continue with the more advanced courses offered at Bryn Mawr College.

Major Requirements

(Courses numbered above 100 are offered at Bryn Mawr College.)

Students majoring in this field will be required to take:

8 semester courses in Russian language and literature: 11-12, 21-22, 201, a 300 course chosen from 301, 302, 303, 304, in addition to the 100 course.

4 semester courses in Russian history and institutions: History 208 (History of Russia); Political Science 41 (The Soviet System).

Other related courses, including Russian 203, (Russian Literature in Translation) will be arranged in individual conference with the Major Supervisor.

A comprehensive examination on the Russian language, a special period of Russian literature, and Russian history.

Requirements for Honors

Honors in Russian will be awarded on the basis of consistently high quality work in literature, and a research paper. High Honors will be awarded on the basis of further oral examination.

- 11-12. **ELEMENTARY RUSSIAN**—*Five periods a week.* Miss de Graaff.
Russian grammar, conversation, and reading. This course meets five times a week with corresponding reduction in outside preparation; three hours credit.
- 21-22. **INTERMEDIATE RUSSIAN**—*Four periods a week.* Miss de Graaff.
Grammar review, reading in Russian classics and contemporary materials, conversation. Prerequisite: a grade of 70 or higher in Russian 12, or the equivalent.

Sociology and Anthropology

PROFESSOR IRA DE A. REID, *Chairman*

ASSOCIATE PROFESSOR A. PAUL HARE

THE CURRICULUM in Sociology and Anthropology is designed to develop the student's understanding of the social structure, the social process, and the social relationships of human societies. The subject matter deals with man, his groups, his organizations, and his communities. Courses are offered for those who would make these subjects their area of major interest as well as for those students who wish to study behavioral science methods or such specific groups and institutions as populations, the family, and the urban community. Complementary and supplementary courses in Sociology and Anthropology are offered in conjunction with Bryn Mawr College.

Major Requirements

A major program in Sociology and Anthropology has a prerequisite of Sociology 11, 21, and 22. Students are advised to take these courses in their Freshman and Sophomore years. The program requires in addition the satisfactory completion of the following courses:

- a. Sociology 33, 35, 38, 49, 81 or 82, 100, and one course in Anthropology.
- b. two additional courses in Sociology, selected from the offerings below or from those at Bryn Mawr College.
- c. two courses selected from the Departments of Economics, Political Science, and Psychology, subject to the approval of the Major Supervisor.

Mathematics 14 is suggested but not required.

A comprehensive examination and a research paper designed to test the student's knowledge as well as his ability to integrate and utilize the subject matter of the behavioral sciences are required in the Senior year.

Students who wish to take a major program with primary emphasis on Anthropology should consult the Chairman of the Department.

Requirements for Honors

Candidates for Final Honors in Sociology and Anthropology will be required to maintain an average of 85 or over in their major courses, to complete two research papers, one in the field of *Social Groups and Institutions* during the Junior year,

another in the field of *Social Processes and Issues* during the Senior year, and to pass with distinction a comprehensive examination in each year.

11. INTRODUCTORY SOCIOLOGY—Mr. Reid and Mr. Hare.

A basic course designed to acquaint the student with the essential points of view about human groups and their behavior, the more important information which sociologists have discovered about groups, the research procedures used, and the basic methods of the field.

12. GENERAL PSYCHOLOGY—Mr. Ranken and Mr. Rosenhan.

(See Psychology 12.)

21, 22. SOCIAL RESEARCH—Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques, and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical, and other research procedures. Sociology 22 will introduce principles and practices in computer analysis in the social sciences. Individual projects. Prerequisite: Sociology 11, or introductory courses in the other social sciences.

26. HUMAN RELATIONS

(See Psychology 26.)

27b. SOCIAL PSYCHOLOGY—Mr. Rosenhan.

(See Psychology 27b.)

33. POPULATION POLICIES AND PROBLEMS—Mr. Reid.

A study of the restrictive, expansive and eugenic aspects of national population policies as they are related to demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration, and food supply. Prerequisite: Sociology 11.

34. SOCIAL WELFARE AND PUBLIC POLICY—Mr. Somers.

(See Political Science 34.)

35. THE SOCIOLOGY OF SMALL GROUPS—Mr. Hare.

Theoretical and experimental analyses of the structure and interaction systems of small social groups. Special attention is given to the methodologies of sociometry and field theory and their relevance for economic, political, and social situation analysis. Prerequisite: Sociology 21.

36. LABOR ECONOMICS AND LABOR RELATIONS—Mr. Smolensky.

(See Economics 36.)

37. THE FAMILY—Mr. Reid.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects. Prerequisite: Sociology 11.

Offered in 1961-62 and alternate years.

38. THE MODERN URBAN COMMUNITY—Mr. Reid.

A study of the social and spatial aspects of modern urban community organization as influenced by personal, technological, ecological, economic and political factors. Special attention is given to the problems and processes of planning. Individual projects. Prerequisite: Sociology 11 and 21.

40a. RACE AND ETHNIC GROUPS IN THE MODERN WORLD—Mr. Reid.

An analysis of the secularization of the world's peoples and the contemporary "minorities" situations in the world; how these situations arise; how they are perpetuated. Special attention is given to theories and methods of analysis. Individual projects. Prerequisite: Sociology 11.

45b. SOCIAL DISORGANIZATION AND DEVIANT BEHAVIOR—Mr. Hare.

An analysis of the theories and problems of social disorganization as they relate to conformity and deviancy in human behavior. The course will be based on a series of specially designed case studies dealing with the situations and roles of the gambler and the speculator, the migrant and the vagrant, the sexual deviant, the alcoholic and the drunkard, the spectator and the performer, the delinquent and the criminal, the conscientious objector and the radical. Lectures, discussions, field trips, reports.

49. SOCIOLOGICAL THEORY—Mr. Schneider.

The nature and function of sociological theory and its place in the development of the field of Sociology. The reciprocal functions of sociological theory and sociological research. Intensive attention will be given each year to several major theorists. (This course is given at Bryn Mawr College as Sociology 302a.)

52. ISSUES IN SOCIETY—Mr. Reid.

This seminar is designed to treat a sociological situation of current or potential importance, emphasizing the nature and problems of social fact, social values and the social process. The current course will be concerned with the sociology of knowledge. This course may be repeated for credit. Prerequisite: Permission of the instructor.

81, 82. PROJECT AND READING COURSES—*Individual consultation; supervised independent reading and research*—Mr. Reid and Mr. Hare.

Research papers and reading courses on special topics based upon the individual interests of advanced students. Theses for majors in the Department may be written for credit in this course. Admission is subject to the consent of the Chairman. Required of all Sociology-Anthropology majors. Prerequisite: Permission of the Department.

Spanish
(see Romance Languages)

Arts and Service Program

THE FACULTY OF HAVERFORD COLLEGE adopted in the spring of 1947 a program designed to cultivate aesthetic perception, creative control of materials, a love of fine workmanship, and other important areas of learning and of experience, such as community service, which have usually been omitted

from the liberal arts program. The Faculty feels that, though courses in these areas cannot properly be included in the academic curriculum, they are of no less importance in the development of personality than strictly intellectual work.

Every student is required to take nine terms (a "term" in this sense being approximately nine weeks in either the autumn, winter, or spring) of work which is not academic in nature. It is mandatory that six of these terms be taken in Physical Education: three in the Freshman year, two in the Sophomore year, and one in the Junior year. The remaining three terms may be devoted either to courses of the Department of Physical Education or to those of the Arts and Service Program described here. The Arts and Service courses are offered in the fall and winter but not in the spring term; the first election of such courses may be made in the Sophomore year.

In its non-academic work, the College insists on the same high quality of teaching which it demands in its academic courses. A distinction in the two types of work is needed not because one is thought to be less important than the other, but because in the opinion of the Faculty the two kinds of work are different and should not be equated.

CABINETMAKING—*Three hours a week.* Mr. Holmes.

Instruction in woodworking with hand tools on selected tasks. Qualified students may work on projects of their own choice insofar as facilities permit. Cost of materials will be borne by the student. Limited to five students, with consent of the instructor. Offered in the winter term, but students wishing to enroll in this course should see Mr. Holmes at the time of registration for the fall term.

COMMUNITY SERVICE—*Three hours a week.* Mr. Hetzel.

This course provides an opportunity for students to render service to, and participate in, the affairs of the community. Arrangements are made on an individual basis for scheduled and supervised activities such as Boy Scout leadership, work at the Main Line YMCA and at community centers in Philadelphia, political party and election campaign activity, work for the Red Cross, the American Friends Service Committee, etc. Offered in the fall and winter terms.

MACHINE-TOOL WORK—*Three hours a week.* Mr. Wilson.

This course, designed for beginners, will include machine-tool work on the lathe, milling machine, shaper, and drill-press. Those who have sufficient skill will be permitted to use the scheduled period for approved projects of their own choice. Offered in the winter term. Limited to five students.

MODELING AND SCULPTURE—*Three hours a week.* Mr. J. Wallace Kelly.

A course open to beginners or advanced students. It includes composition, portrait, life, and some study of modern trends in sculpture. Students will use wet clay and plasteline, and will build directly in plaster. As artists have long been taught to read, so this course aims to teach academic students to see. Offered in the winter term.

MODERN IRON SCULPTURE—*Three hours a week.* Mr. J. Wallace Kelly.

A practical course using a spot welder to develop three dimensional free forms. Each student will make sketches and develop a composition, will use iron rods and thin-gauge sheet iron cut, shaped, and then welded together. Students will also discuss modern sculpture with the instructor. Offered in the fall term. Limited to six students.

MUSIC APPRECIATION—(1)—*Three hours a week.* Mr. Reese.

An elementary course designed to develop a technique of listening to music. The basic aspects of music—melody, rhythm, harmony, texture, color, form—are studied. Emphasis is placed on the analysis of examples given and of music heard in available concerts. Students are required to keep a class notebook. Offered in the winter term.

MUSIC APPRECIATION—(2)—*Three hours a week.* Mr. Caselli.

Italian Comic Opera will be studied and analyzed with particular regard to the different schools. An answer to a simple questionnaire will be required at the end of the course as a final examination. Offered in the fall term.

PAINTING AND GRAPHIC ARTS—*Three hours a week.* Mr. Janschka.

The purpose of instruction in this course is to help the student in acquiring perception and skill in artistic creation and rendition through the media of drawing, printmaking, and painting. It will involve an investigation of the uses and potentialities of different techniques, employing still life, life models, and imagination. For the advanced student the stress is on picturemaking, but prior experience is not required. Offered in the fall and winter terms. Limited to twelve students each term.

PHOTOGRAPHY—*Three hours a week.* Mr. Wilson.

This is a course for beginners, and will include instruction in the use and characteristics of photographic equipment, the processing of films and papers, and the composition of subject material both indoors and outdoors. Offered in the fall term. Limited to four students.

RADIO COMMUNICATION—*Three hours a week.* Mr. Benham.

This course consists of projects in radio, such as instruction in the International Morse Code, a study of basic principles, or a construction project (the cost of materials to be borne by the student). It may serve as preparation for the amateur license examination given by the Federal Communications Commission. Offered in the winter term. Admission with the consent of the instructor.

READING AND RECORDING FOR THE BLIND—*Three hours a week.* Mr. Benham and Mr. Butman.

This course offers the opportunity of reading to students at the Overbrook School for the Blind, or making tape recordings of short stories, novels, and poetry. Admission with the consent of the instructors. Offered in the winter term, but students wishing to enroll in this course should see Mr. Benham at the time of registration for the fall term.

THEATER ARTS—MOVEMENT ON THE STAGE—*Three hours a week.* Mr. Butman.

In this course the student is taught how to move on the stage, both in mime and regular acting. The purpose is mainly to overcome self-consciousness and to help the student in self-expression. Offered in the fall term.

THEATER ARTS—SPEAKING ON THE STAGE—*Three hours a week.* Mr. Butman.

A course in which the student is taught how to use his voice on the stage, both as a formal speaker and as an actor. Training is given in dramatic speaking, verse reading, and public speaking. Offered in the winter term.

WEEKEND WORKCAMPS—Mr. Hetzel and Mr. Richie.

Students electing this course will spend two weekends participating in the work of renovating houses in certain areas in Philadelphia, or in the Weekend Institutional Service Units of the American Friends Service Committee as volunteer workers in a psychiatric hospital. Consultations with expert social workers and discussion within the group will promote an interest in and an understanding of social problems. Offered in the fall and winter terms.

Student Government

THE STUDENTS' ASSOCIATION is made up of all undergraduates at Haverford College. The College Administration has delegated to the Students' Association—and the Association has accepted—the responsibility for nearly all aspects of student conduct and of student organizations on the campus. The main instrument for exercising this unusual degree of self-government is the Students' Council, composed of elected representatives from each class.

The Students' Council is both an executive and a judicial body. It handles all phases of the administration of regulations of the Students' Association. On the campus the Council manages extracurricular activities, exclusive of athletics, and allocates to each organization a percentage of the Student Activities Fees.

The presidency of the Students' Council is the most important undergraduate office at Haverford. The President represents the student body before the Board of Managers, the College Administration, and the Faculty. He serves both as liaison officer and as executive. He conveys to the College Administration the recommendations of the Students' Council in disciplinary matters.

Honor System

THE HONOR SYSTEM at Haverford is based on the belief that students can successfully take the responsibility of establishing and maintaining standards in social and academic life. In the academic area the Honor System stipulates that one should distinguish clearly between one's own work and material from any other source. Since examinations are not proctored at Haverford, suitable conduct is required by accepted code. In the social area the guiding principle is respect for the reputation of women guests and of the College.

THE HONOR PLEDGE is called to the attention of each applicant for admission to Haverford College:

"I hereby accept the Haverford College Honor System, realizing that it is my responsibility to safeguard, uphold, and preserve each part of the Honor System and the attitude of personal and collective honor upon which it is based."

Specifically, each student who enters Haverford pledges himself to uphold three responsibilities under the Honor System: (1) to govern his own conduct according to the principles which have been adopted by the Students' Asso-

ciation; (2) in case of a breach of the Honor System to report himself to the Students' Council; (3) if he becomes aware of a violation by another student, to ask the offender to fulfill his pledge by reporting himself. If the offender refuses, the student is pledged to report the matter to the Students' Council. In this manner each individual becomes personally responsible for the successful operation of the entire Honor System.

There are several ways in which the Honor System contributes to the quality of student life at Haverford. There is educational value in considering carefully the factors which make standards necessary and in deciding as a group what standards and regulations are needed in a college. It follows that a large degree of self-government is made possible since students are willing to respect those standards which they themselves have set up. At the same time Haverford successfully meets its responsibility to the community by maintaining an acceptable level of conduct. With his privileges and responsibilities more clearly defined, a Haverford student enjoys a freedom which contributes to the atmosphere of integrity and mutual confidence that prevails at the College.

Each entering student must feel confident before selecting Haverford that he can give his active support to the Honor System. He should realize that its success, which is of great importance to him personally and to the whole student body, and indeed to the College itself, depends upon his willingness to give it his complete support.

Student Committees

The constitution of the Students' Association provides for the following committees to be appointed by the Students' Council:

THE HONOR SYSTEM COMMITTEE is responsible for introducing the Honor System to incoming students. It also makes periodic evaluations of how the System works.

THE STUDENT CURRICULUM COMMITTEE investigates and suggests possible changes in the program of study of the College.

THE CUSTOMS COMMITTEE is in charge of introducing the Freshmen to the College in September.

THE RULES COMMITTEE is an advisory committee on legal and procedural matters of Student Government and continually evaluates and suggests changes in the Constitution.

THE DORMITORY COMMITTEE works with the Comptroller in handling complaints and making recommendations for dormitory improvements.

Various other committees are appointed by the Students' Council according to existing needs.

Student Organizations

THE CAUCUS CLUB is an organization of men interested in political, economic and sociological affairs. It includes as subsidiary groups a chapter of the Intercollegiate Conference on Government and the Political Forum which is responsible for bringing speakers on current affairs in these fields to the campus.

THE INTERNATIONAL CLUB, founded in 1954 by an exchange student, offers opportunities for Haverford students to become acquainted with customs in foreign countries.

THE W. W. COMFORT DEBATING SOCIETY elects to membership men who have shown a consistent interest in debating, and who have represented the College on more than one occasion. Every year a series of intercollegiate debates is conducted.

THE DRAMA CLUB, in conjunction with the Bryn Mawr College Theatre, produces on the average three major plays a year, alternating between the Bryn Mawr and Haverford stages. The workshop of the Club, with lectures and discussions on all vital aspects of play production, is open to all regardless of previous experience.

THE HAVERFORD COLLEGE GLEE CLUB, the chief musical organization of the College, is open to all students who have a love of music and enjoy singing. A schedule of trips and joint concerts with choruses of the principal women's colleges is planned each year, often including a concert tour during Spring vacation. The Club presents major choral works as well as numbers for male voices. Rehearsals are held twice weekly.

THE ORCHESTRA is a combined enterprise with Bryn Mawr College. All students playing orchestral instruments are invited to get in touch with the Director, Dr. William Reese. Concerts of orchestral music are presented during the year and the Orchestra often participates with the Glee Club in the performance of major choral works.

Smaller ensemble groups for chamber music are fostered at both colleges. There is opportunity for instrumental study with noted teachers at nearby music institutions.

THE RADIO CLUB operates the College radio station, WHRC. Members of the club arrange programs, operate the station, and build or buy necessary equipment. The studios are located in the third floor of the Union Building.

THE VARSITY CLUB of Haverford College, organized in 1936, is composed of undergraduates who have won varsity letters. Its purpose is to advance the interests and ideals of the College through athletics.

THE ARTS COUNCIL is an organization whose purpose is to encourage interest and participation in the arts. To carry out this aim the Council sponsors recitals, readings, lectures on the arts, and other events of this nature on the campus. Membership is open to anyone who is interested in this area of activity.

DEPARTMENTAL CLUBS. There are at Haverford various departmental groups which arrange for outside speakers, hold discussion sessions, sponsor demonstrations, plays, and social gatherings. Among these are the French Club, German Club, Spanish Club, Philosophy Club, Psychology Club, the Mathematics Club, Biology Club, and Chemistry Club.

THE PEACE ACTION FELLOWSHIP attempts to stimulate student thinking on pacifism. Activities are designed to explore non-violence both in theory and in its relevance to specific areas of conflict.

Joint Faculty and Student Groups

THE COMMITTEE ON STUDENT AFFAIRS is a joint committee made up of members of the administration and undergraduates. It is responsible for setting policy and for arranging the calendar for social events, athletics, and extra-curricular activities. The budgets of all recognized student organizations must be submitted to it for approval.

THE CAMPUS CLUB is an association of graduates, faculty members, undergraduates, and friends of the College who are interested in maintaining and increasing the beauty of the College campus.

Student Publications

THE HAVERFORD NEWS is a weekly newspaper, distributed to all undergraduates and faculty members and sent to all members of the alumni body. It is published on Fridays, during the college year, by undergraduates. There are opportunities for all interested men on both editorial and business staffs.

THE HAVERFORD COLLEGE HANDBOOK is published each fall under the auspices of the Students' Council. It contains information particularly valuable to new students.

THE RECORD is published annually by the Senior class, with the financial support of the Students' Association. It includes a record of the year, with particular emphasis upon the activities of the graduating class.

THE HAVERFORD REVUE is a magazine devoted to student literary efforts. It is published approximately twice a year.

Health Program

THE HAVERFORD COLLEGE HEALTH PROGRAM is under the direction of the College Physician, who holds office hours at the Infirmary at stated hours and is available in any emergency. Also available to all College students by appointment at the College Infirmary, is a qualified Psychiatrist. The advice and help of expert medical consultants may be obtained readily at the Bryn Mawr Hospital. When necessary, additional consultants are obtained from one of the University Hospitals in Philadelphia. The College Nurse is on duty at the Infirmary at all times.

Each student is required to have a complete physical examination by his own physician before entering the College and each year before returning to campus. Follow-up examinations are given when indicated by the College physician. Influenza Vaccine is recommended and given to the entire student body each year, at no additional cost to the student.

Each student is entitled to unlimited dispensary service, at stated hours, and first-aid service at any time.

In case of illness, each student is entitled to two weeks of residence in the Morris Infirmary each semester, ordinary medicine, diagnostic laboratory work, and x-rays needed for diagnosis, and the services of the College physician and resident nurse.

Students will be charged \$5.00 a day for residence in the Infirmary after their first two weeks. Day students will be charged for board in addition, while in the Infirmary.

Each student is also covered by a blanket accident policy which pays actual expenses resulting from any accident up to a limit of \$500.00 for each accident. The expenses covered include x-rays, medicine, surgical appliances, hospital bills, nursing care, physician's fee, surgeon's fee, and also dentist bills for repair or replacement of natural teeth as a result of an accident, subject to the approval of the College physician. The coverage is in force from 12:01 A.M. Standard Time three days before the date when registration of entering students begins until midnight three days after Commencement Day.

All of these services are covered by the Unit Fee which is paid by all students (see page 27).

The Infirmary, presented by John T. Morris, '67, contains ten beds, a surgical room, an isolation ward for contagious diseases, its own kitchen, and accommodations for a resident nurse. Every provision has been made for medical and surgical treatment of all cases among students during the college year. The danger of infection through illness in the college dormitories is thus minimized.

Library, Laboratories, and Other Academic Facilities

The Library

THE HAVERFORD COLLEGE LIBRARY is planned and developed with the primary purpose of providing the intellectual resources of books, periodicals, and pamphlets needed to sustain the work of the academic curriculum. Most of the volumes have been selected by the teaching faculty, and, with the exception of some special collections described below, the books and periodicals are all on open shelves and readily accessible for over ninety hours a week during the college year. In the administration of the Library, the aim is to bring the resources of the book collection as effectively as possible into the academic life of the College.

Beyond this primary purpose, the Library seeks through several collections to provide opportunities for independent research in certain fields. Most notable of such collections is the Quaker Collection, which attracts many visiting scholars each year. The Government Depository and International Documents Collections provide extensive resources for independent study in the social sciences, and there are further collections of autograph material, orientalia, and particularly of Renaissance literature offering similar research opportunities in other fields.

The Haverford Library contains about 214,000 volumes, and holds subscriptions to over 700 literary and scientific periodicals. Though designed especially for the use of students and faculty of the College, the Library welcomes outside readers who wish to consult the books, and, under certain restrictions, may grant them special borrowing privileges. The Library is open on weekdays from 8:00 A.M. to 11:00 P.M., and on Sundays from 2:00 to 11:00 P.M. (Treasure Room: Weekdays—9:00 - 5:00; Saturdays—9:00 - 12:00). Special hours are arranged for vacation periods.

The Library building, the first portion of which (the present north wing) was built in 1863, has grown by five successive additions. The construction of a new Stack in 1941 has assured room for growth of the book collections for several years to come. In December 1952 the original north wing was renovated in memory of William Pyle Philips, and now forms a bright and comfortable room for quiet study. There are also four special reading rooms in the building:

THE GUMMERE-MORLEY MEMORIAL READING ROOM, decorated and equipped by the Class of 1892, provides a reading and browsing room for Haverford students.

THE MICROMATERIALS READING ROOM, equipped with microfilm and microprint readers and a microfilm file of *The New York Times* from 1930 to the present.

THE RUFUS M. JONES STUDY, a replica of Rufus Jones' own study, with his own books and furniture, is used for seminar classes in philosophy as well as for quiet reading.

THE TREASURE ROOM, provided through the generosity of Morris E. Leeds of the Class of 1888, contains the Quaker Collection as well as other rare books and special collections.

Special Collections

THE QUAKER COLLECTION, containing approximately 20,000 books and 40,000 manuscripts, maps and pictures of interest to the Society of Friends, provides a repository for Quaker literature in the United States, and makes Haverford a vital center for the study of the history and philosophy of Quakerism. The unique nucleus of the library is *The William H. Jenks Collection of Friends' Tracts*, mostly of the seventeenth century, which numbers about 1500 separately bound titles.

THE RUFUS M. JONES COLLECTION ON MYSTICISM contains almost a thousand books and pamphlets from the fifteenth century to the present day.

THE TOBIAS COLLECTION OF THE WRITINGS OF RUFUS M. JONES is practically complete. It consists of 168 separate volumes and 16 boxes of pamphlets and extracts.

THE CHARLES ROBERTS AUTOGRAPH COLLECTION contains more than 20,000 items, embracing autographs of the signers of the Declaration of Independence, authors, statesmen, scientists, ecclesiastics, and monarchs, and also several series of valuable papers on religious and political history.

FRENCH DRAMA OF THE ROMANTIC PERIOD, a collection of several hundred popular plays produced in Paris between 1790 and 1850. The collection was presented to the College by William Maul Measey.

THE CHRISTOPHER MORLEY COLLECTION OF AUTOGRAPH LETTERS comprises about 200 letters and memoranda selected by Mr. Morley from his correspondence files. Over one hundred contemporary authors are represented.

THE WILLIAM PYLE PHILIPS COLLECTION contains more than seventy-five rare books and manuscripts, mostly of the Renaissance period. Among the treasures of this collection are first editions of Dante, Copernicus, Spenser, the King James Bible, Milton, Newton, and the four folios of Shakespeare.

THE HARRIS COLLECTION OF ANCIENT AND ORIENTAL MANUSCRIPTS contains over sixty Hebrew, Greek, Latin, Arabic, Syriac, and Ethiopian rolls and codices collected by J. Rendel Harris.

Affiliations

Haverford maintains a cooperative arrangement with Bryn Mawr and Swarthmore whereby the facilities of the libraries of all three colleges are open to the faculty and students of each of the colleges.

THE PHILADELPHIA BIBLIOGRAPHICAL CENTER AND UNION LIBRARY CATALOGUE, the largest regional cooperative catalogue in America, enables users of the Haverford Library to locate books in over one hundred and seventy libraries of the Philadelphia area.

THE LIBRARY ASSOCIATES is an organization of graduates and friends of the College, devoted to increasing the usefulness of the Library. It serves to bring the facilities of the Library to wider notice and to make them available to the whole Haverford community; to encourage the making of gifts to the Library; and to aid in the use of the Library for exhibition purposes. Inquiries should be addressed to The Library, Haverford College.

Scientific Laboratories

THE WILLIAM J. STRAWBRIDGE MEMORIAL OBSERVATORY is equipped with three equatorially mounted telescopes, a 10-inch and a 4½-inch refractor, and a 6-inch reflector; a reflecting telescope with 8-inch mirror and altazimuth mounting; a meridian circle telescope of 3¾-inch aperture; a zenith telescope of 2¼-inch aperture; a spectrohelioscope; an astrographic mounting provided with two 4-inch Ross lenses and a 4-inch guiding telescope; sidereal clocks, a chronograph, and other instruments. The astronomical library is housed in the Observatory.

THE LYMAN BEECHER HALL CHEMISTRY LABORATORY is a three-story structure with working space in the various laboratories for about two hundred and fifty students. Separate laboratories are available for general chemistry and qualitative analysis, quantitative analysis, organic chemistry, qualitative organic analysis and organic synthesis, semimicro quantitative analysis, and physical chemistry respectively. In addition two rooms are

devoted to the needs of research students. Books and periodicals dealing with chemical subjects are housed in a comfortably furnished library on the first floor which is open to the students.

THE HILLES LABORATORY OF APPLIED SCIENCE houses the Engineering Department. This modern building contains classrooms, drawing rooms, a departmental library, shops, and mechanical and electrical laboratories.

Exceptional facilities for observing the practical side of the work are offered by the many manufacturing companies in and near Philadelphia and frequent inspection trips are made.

SHARPLESS HALL is occupied on the two lower floors by the Department of Physics. Here are situated the departmental library, laboratories, darkrooms, shops, and rooms for individual work. The Department has well equipped laboratories for advanced work in electronics, X-rays, atomic, nuclear and high energy Physics. Recent grants have greatly expanded the precision electronics laboratory, and a loan of a sizeable quantity of uranium from the United States Atomic Energy Commission has made possible the construction of a sub-critical water-moderated nuclear reactor.

The upper floors house the Biology and Psychology laboratories, and the Biology library.

The Biology facilities include a new laboratory (the construction of which was subsidized by the Carnegie Corporation) for introductory cellular Biology, a general laboratory for microbiology and biochemistry and three well equipped, modern laboratories for senior research in cellular physiology, comparative biochemistry, and physiological genetics.

The Psychology Department has a number of individual rooms for student experimental research projects and facilities for housing animals for laboratory work.

Natural History Collections

THE NATURAL HISTORY COLLECTIONS, presented to the College by a considerable number of interested friends, are displayed in Sharpless Hall through a gift of the Class of 1915.

Archaeological Collection

THE BETH SHEMESH MUSEUM on the third floor of Sharpless Hall exhibits the archaeological finds by the late Professor Elihu Grant during a series of field excavations at the site of that name in Palestine. These materials reveal the life of a typical Near East community in the many aspects of its development and interplay with other people over a span of 2000 years. Thus, the

collections provide a laboratory for study of the cultural cross-currents which met in Palestine during one of the great formative periods of civilization.

Art Collection

A permanent art collection, including paintings and drawings by Homer, Inness, Pintorricchio, Sargent, Turner, and Whistler, is displayed in the Library.

Temporary exhibitions of paintings, drawings, and photographs are held from time to time at the College.

Framed reproductions of outstanding paintings and a few originals are available for loan to students at the beginning of each semester.

Music Collection

In addition to a considerable collection of music scores, including the complete works of several composers, and books in the general Library, the special equipment of the Music Department consists of several pianos and a collection of scores, books, and phonograph records presented in 1933 by the Carnegie Corporation. This record collection has served as the basis for further acquisitions which are used for teaching and study purposes.

THE ALFRED PERCIVAL SMITH ROOMS in the Haverford Union are reserved for music study. There is a larger room with a Steinway Grand for the holding of classes and informal concerts organized by the Music Department, and the Music Department office in which a small library of valuable books, scores and records is kept.

The larger concerts are held in Roberts Hall where a Steinway Grand and a Schlicker portable pipe organ are at the disposal of artists.

THE HAVERFORD COLLEGE FRIENDS OF MUSIC is an association of friends and neighbors of the College and faculty members, who, in cooperation with the Music Department, arrange a series of chamber music concerts which are held at various times during the year in the Common Room.

Campus

THE ARBORETUM AND THE WOOLMAN WALK, the latter the gift of the late Edward Woolman, '93, contain a wide variety of woody plants, both indigenous and exotic, thus permitting direct observation and study by students of the natural sciences.

THE MARY NEWLIN SMITH MEMORIAL GARDEN, which adjoins the south side of the Library, while primarily developed as a decorative feature, contains a wealth of flowering shrubs of interest to the botanist.

The Bucky Foundation

THE BUCKY FOUNDATION, which has as its goal the promotion of a spiritually grounded political and economic order, supports various efforts of the College to prepare students to assume a responsible role in society.

Income from the Foundation has been used to sponsor a Constructive Citizenship program and for the training of students through the Relief and Reconstruction Unit. It is being used to support Haverford participation in a program of week-end work-camps and community service.

Fellowships, Prizes and Honors

Fellowships

THE CLEMENTINE COPE FELLOWSHIP was established in 1899. The income is applied to "assisting worthy and promising graduates of Haverford College in continuing their studies at Haverford or at some other institute, in this country or abroad, approved by the Board of Managers. Candidates shall be nominated by the College Faculty to the Board of Managers."

The Faculty will nominate a First Cope Fellow and a Second Cope Fellow whose individual stipends, not to exceed \$1,000, will be determined by the Board.

Applications for the Clementine Cope Fellowship must be in the hands of the President before February 28, accompanied by whatever statement of extracurricular activities the candidate considers relevant.

Prizes

(All prizes awarded in books are marked with appropriate bookplates. As soon as possible after the award a list of standard books from which selection is to be made should be submitted for approval to the head of the department awarding the prize.)

ALUMNI PRIZE FOR COMPOSITION AND ORATORY.—A prize of \$50.00 was established by the Alumni Association in 1875 to be awarded annually for excellence in composition and oratory. Competition is open to Freshmen and Sophomores, but the same man may not receive the prize twice. The competition for this prize is administered by the Department of English.

JOHN B. GARRETT PRIZES FOR SYSTEMATIC READING.—A first prize of \$150.00 and a second prize of \$75.00 will be given at the end of the Sophomore, Junior or Senior year to the two students who, besides creditably pursuing their regular course of study, shall have carried on the most profitable program of reading in a comprehensive topic during a full college year.

Candidates for these prizes must register with the chairman of the department under whose supervision the work will be performed. The department is responsible for guiding the work and reporting the achievement to the Committee on Honors, Fellowships and Prizes for final judgment. Either or both of these prizes may be omitted if, in the judgment of the Committee, the work does not justify an award.

Interested students should apply directly to a relevant department for information.

THE CLASS OF 1896 PRIZES IN LATIN AND MATHEMATICS.—Two prizes of \$10.00 each, in books, to be known as "The Class of 1896 Prizes in Latin and Mathematics," were established by the bequest of Paul D. I. Maier of the Class of 1896. They are awarded at the end of the Sophomore year to the students who have done the best work in the departments concerned.

THE LYMAN BEECHER HALL PRIZE IN CHEMISTRY.—A prize of \$100.00 was established by the Class of 1898 on the twenty-fifth anniversary of its graduation, in honor of Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917.

This prize may be awarded to a student who has attained a high degree of proficiency in Chemistry and who shows promise of contributing substantially to the advancement of that science. It may be awarded to a Junior, to a Senior, or to a graduate of Haverford College within three years after graduation. It may be awarded more than once to the same student, or it may be withheld.

THE CLASS OF 1902 PRIZE IN LATIN.—A prize of \$10.00 in books, is offered annually by the Class of 1902 to the Freshman whose work in Latin, in recitation and examinations combined, shall be the most satisfactory. At the discretion of the professor in charge of the Department, this prize may be omitted in any year.

THE DEPARTMENT PRIZES IN MATHEMATICS.—A first prize of \$30.00 and a second prize of \$20.00 are awarded on the basis of a three hour examination on selected topics in Freshman Mathematics. The examination is held annually on the first Monday after the Spring Recess, and is open to Freshmen only.

ELLISTON P. MORRIS AND ELIZABETH P. SMITH PEACE PRIZES.—These have been combined into a single competition offering three awards of \$200.00, \$100.00 and \$50.00 respectively. It is open to all undergraduates and to graduate students.

The prizes are awarded for the best essays bearing on the general topic of "Means of Achieving International Peace." Essays should be deposited with the Registrar before May 1. The judges shall be appointed by the President of the College.

Prizes will not be awarded if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

PRIZES IN PHILOSOPHY AND BIBLICAL LITERATURE.—A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory outside reading in Philosophy in connection with the courses in that Department.

A prize of \$40.00 and a second prize of \$25.00, in books, are offered annually to the students who, in the judgment of the professor in charge, do the most satisfactory reading on the Bible and related subjects.

THE SCHOLARSHIP IMPROVEMENT PRIZES.—A first prize of \$50.00 and a second prize of \$45.00 are awarded at the end of the Senior year to the two students who, in the opinion of the judges appointed by the President of the College, show the most steady and marked improvement in scholarship during their college course.

THE FOUNDERS CLUB PRIZE.—A prize of \$25.00 is offered and awarded annually by the Founders Club to the Freshman who is judged to have shown the best attitude toward college activities and scholastic work.

THE S. P. LIPPINCOTT PRIZE IN HISTORY.—A prize of \$100.00 is offered annually for competition in the Department of History under the following general provisions:

First—Competition is open to Sophomores, Juniors, and Seniors who have taken or are taking work in the Department of History.

Second—The prize shall not be awarded twice to the same student.

Third—The prize may be withheld in any year if, in the opinion of the judges, a sufficiently high standard of merit has not been attained.

Fourth—An essay of not less than 5,000 words, written in connection with course or Honors work in History, or independently of course work, treating a subject selected with the approval of a member of the History Department, shall be submitted as evidence of scholarly ability in the collection and presentation of historical material. It shall be typewritten and deposited with the Registrar before May 1.

THE NEWTON PRIZE IN ENGLISH LITERATURE.—A prize of \$50.00 established by A. Edward Newton may be awarded annually on the basis of Final Honors in English, provided that the work of the leading candidate, in the judgment of the English Department, merits this award.

THE WILLIAM ELLIS SCULL PRIZE.—A prize of \$50.00, established in 1929 by William Ellis Scull, '83, is awarded annually to the upperclassman who shall have shown "the greatest achievement in voice and in the articulation of the English language." This prize is administered by the Department of English.

THE GEORGE PEIRCE PRIZE IN CHEMISTRY OR MATHEMATICS.—A prize of \$50.00 in memory of Dr. George Peirce, '03, is offered annually to a student of Chemistry or Mathematics "who has shown marked proficiency in either or both of these studies and who intends to follow a profession which calls for such preparation. Preference is to be given to a student who has elected organic chemistry, and failing such a student, to one who has elected Mathematics or some branch of Chemistry other than organic. Should there be two students of equal promise, the one who is proficient in Greek shall be given preference." The prize is offered, however, exclusively for students who have expressed the intention of engaging in research.

EDMUND J. LEE MEMORIAL AWARD.—Classmates of Edmund Jennings Lee, '42, who lost his life in the service of his country, have established in his memory a fund, the income from which is to be given annually to that "recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extracurricular activities, spiritual growth, or college spirit in individuals or in the College as a whole during the year. The Award is to be used in continuing to render such service."

THE WILLIAM W. BAKER PRIZE IN GREEK.—A prize of \$25.00 in books, established in 1954 in memory of William W. Baker, Professor of Greek at Haverford College from 1904 to 1917, is given "in the study of Greek," and is administered by the Classics Department.

THE KURZMAN PRIZE IN POLITICAL SCIENCE.—A prize of \$125, established in 1958 by Harold P. Kurzman, is awarded annually for the senior who has performed best and most creatively in political science, except when in the judgment of the department no student has done work of sufficient merit to warrant such award.

THE THERESA HELBURN PLAYWRITING AWARD.—These awards, open to all students of Bryn Mawr College, are given by Theresa Helburn to encourage playwriting. The prize consists of \$100.00 for the best full-length play and \$50.00 for the best one-act play submitted each year and considered worthy. Original work is required; adaptations, translations and collaborations are not eligible. Haverford students in playwriting may submit manuscripts for these awards.

THE JOHN G. WALLACE CLASS NIGHT AWARD.—A silver cup to be awarded annually to the Best Actor in the Class Night performances.

HAVERFORD NEWS 50TH ANNIVERSARY AWARDS.—Three prizes established by a former editor of the HAVERFORD NEWS to be awarded annually at Commencement for a period of five years (1959-1963); 1) To that staff of the NEWS which carries out the best editorial project of the academic year, \$50; 2) To a NEWS staff member for the best report of a public lecture given on the campus, \$25; 3) To a NEWS staff member for the best account of a sports event, \$25.

Honor Societies

PHI BETA KAPPA.—The Haverford College Chapter of the Phi Beta Kappa Society of America was chartered in 1898 as Zeta of Pennsylvania. Election of members-in-course, Alumni members, and Honorary members, based upon scholarly attainment and distinction, takes place at the end of the academic year. *President:* Wilmot R. Jones, '23; *Vice-President:* Archibald MacIntosh, '21; *Secretary:* Harry W. Pfund, '22; *Treasurer:* Holland Hunter, '43.

FOUNDERS CLUB.—The Founders Club was established in 1914 as a Haverford organization of students, alumni, and Faculty. Election to its membership is recognition of a sound academic record combined with noteworthy participation in extra-curricular activities. Undergraduate elections are usually limited to the Junior and Senior classes. *President:* William L. Rhoads, 3rd, '50; *Vice-President:* Robert W. McConnell, Jr., '40; *Treasurer:* F. Thomas Hopkins, '49; *Secretary:* Christoph M. Kimmich, '61.

Honorable Mention

Honorable Mention in a single year course will be awarded at the end of the Freshman or Sophomore year, or at the end of the Junior or Senior year in any course outside a student's major field, for acceptable work in that course and additional work in the total amount of not less than seventy-five hours. Candidates for Honorable Mention must obtain a minimum average of 85 in the regular work of the year course and may be required to pass an examination on the additional work. Two courses of one semester each in the same department may be construed as a single course.

A student who has received the prescribed grade in the regular work of a course required for Honorable Mention, but who has not done the additional work required in connection with that course, may do so with the consent of the professor in charge during the succeeding year.

Final Honors

Final Honors are awarded to students who have undertaken and carried through academic work of high quality. Final honors are of two kinds, those awarded by departments and those awarded by the College.

A student who is considered to have the requisite ability is invited by his department to become an honors candidate as early as possible in the course of his major work. The exact nature of departmental honors work and the criteria used in judging it are listed in the departmental statements in this Catalog. For honors the work in the department must be considerably superior to that required for graduation. The student must demonstrate his competence, insight and commitment to his field of interest.

Individual departments may award *honors* to students whose departmental work has been of high quality and *high honors* to those who have demonstrated both high quality and originality, indicating an unusual degree of competence.

Students who have been awarded departmental honors may be invited by the Committee on Honors, Fellowships and Prizes to stand for College honors: *magna cum laude* or *summa cum laude*. *Magna cum laude* indicates that a student has understood to a superior degree the significant relations between the area of his own specialized competence and his College work as a whole. *Summa cum laude* indicates an even more outstanding achievement. *Magna cum laude* and *summa cum laude* are awarded by the faculty on recommendation of the committee.

The Committee on Honors, Fellowships and Prizes will fix the minimum academic standards and procedures acceptable in any year for *magna cum laude* and *summa cum laude* and may require oral and/or written examinations or essays.

Alumni Council

Officers of the Alumni Association, Members of the Executive Committee and Alumni Representatives on the Board of Managers

President

ROBERT B. GREER, '18
17 South Avenue
Media, Pa.

BERNARD V. LENTZ, '33
White & Williams
1930 Land Title Building
Philadelphia 10, Pa.

1st Vice President

ROBERT L. BALDERSTON, '39
386 Bair Road
Berwyn, Pa.

HARRY T. PAXTON, '36
414 Radnor Street Road
Wayne, Pa.

2nd Vice President

JOSEPH G. BILLO, '50
Baker, Voorhis & Company
30 Smith Avenue
Mount Kisco, N. Y.

SAMUEL A. ARMSTRONG, '27
7 East Amherst Road
Bala Cynwyd, Pa.

3rd Vice President

HORACE K. DUGDALE, JR., '33
Beadenkopf Leather Company
1400 Walnut Street
Wilmington 99, Del.

H. MATHER LIPPINCOTT, JR., '43
Rose Valley Road
Moylan, Pa.

Treasurer

H. ROYER SMITH, JR., '44
H. Royer Smith Company
10th & Walnut Sts.
Philadelphia, Pa.

MILTON A. KAMSLER, '20
6711 Wissahickon Avenue
Philadelphia 19, Pa.

GEORGE H. NOFER, '49
123 Sandra Avenue
Willow Grove, Pa.

Executive Secretary

BENNETT S. COOPER, '18
Haverford College
Haverford, Pa.

JOHN T. ACTON, '50
Buck Road
Bryn Athyn, Pa.

Executive Committee

IRVIN C. POLEY, '12
6012 Chew Street
Philadelphia 38, Pa.

W. JAMES HOWARD, '60
School of Medicine
University of Pennsylvania
Philadelphia, Pa.

Alumni Council (*continued*)

Alumni Representatives on Board of Managers

JOHN S. WILLIAMS, '20
Franklin Printing Company
Primos, Pa.

HERBERT W. REISNER, '31
102 West Mermaid Lane
Philadelphia 18, Pa.

WILLIAM F. TIERNAN, JR., '36
Franklin Printing Company
Primos, Pa.

JERVIS J. BABB, '21
100 Park Avenue
New York, N. Y.

Regional Members (In Office through February 1961) Members at Large and Members of Nominating Committee

REGIONAL MEMBERS

New England States:

SUMNER W. FERRIS, '43
Hemphill, Noyes & Co.
10 Post Office Square
Boston, Mass.

EDWARD H. IRVING, JR., '44
28 Elihu Street
Hamden 14, Conn.

ROBERT BRAUCHER, '36
40 Temple Street
Belmont, Mass.

New Jersey:
A. DOUGLAS KNOWLTON, '20
135 Parsonage Hill Road
Short Hills, N. J.

New York and Connecticut:

CHARLES B. CONN, JR., '35
148 Highland Avenue
N. Tarrytown, N. Y.

HARRIS G. HAVILAND, '26
156 Canoe Brook Parkway
Summit, N. J.

FRED RODELL, '26
Falls Road
Bethany, Conn.

*Delaware, Maryland &
Washington, D. C.:*

ARTHUR G. ASHBROOK, JR., '41
Parkway Apartments, Apt. 26
2514 "K" Street, N.W.
Washington 7, D. C.

OLIVER W. MELCHIOR, '28
254 Madison Road
Scarsdale, N. Y.

M. DANIEL DAUDON, '49
10 Haslet Way
Wilmington 6, Del.

Alumni Council *(continued)*

G. CHESTON CAREY, '15
3501 Brehms Lane
Baltimore 13, Md.

Southeastern States:

WALTER E. VAIL, '15
1541 Bridge Road
Charleston 4, W. Va.

Great Lakes States:

J. HAMOR MICHENER, '29
Country Club Estates
Cleveland 24, Ohio

SAMUEL M. MURPHY, JR., '41
R. D. #1, Box 342 B
Batavia, Ill.

Western States:

HERBERT S. GASKILL, M.D., '32
250 Ash Street
Denver, Colo.

Pacific States:

RICHARD WISTAR, '28
6436 Mokelumne Avenue
Oakland, Calif.

Pennsylvania: (Other than Philadelphia)

WILLARD E. MEAD, '26
7010 Reynolds Street
Pittsburgh 8, Pa.

J. STANTON CARSON, '24
Wright & Rundle
625 Frick Building
Pittsburgh, Pa.

ERNEST N. VOTAW, '15
176 Colonial Drive
Chambersburg, Pa.

Philadelphia:

EDWARD F. LUKENS, JR., '16
606 Winsford Road
Bryn Mawr, Pa.

KENNETH S. ROBERTS, '42
200 Haws Lane
Philadelphia, Pa.

F. JOSEPH STOKES, JR., '35
1012 Westview Street
Philadelphia 19, Pa.

MEMBERS AT LARGE

INGRAM H. RICHARDSON, '28
R. F. D. Mendham, N. J.

JOHN W. MASLAND, '33
2 Webster Terrace
Hanover, N. H.

EDWIN A. SPEAKMAN, '31
811 Oak Ridge Road
Rosemont, Pa.

ELIAS RITTS, '05
220 Belmont Road
Butler, Pa.

WILLIAM R. FRY, JR., '36
R. D. #1, Pine Top Trail
Bethlehem, Pa.

Alumni Council (*continued*)

ALUMNI NOMINATING COMMITTEE

GRANVILLE E. TOOGOOD, '20
N. W. Ayer & Son, Inc.
West Washington Square
Philadelphia, Pa.

CHARLES WARNER, JR., '23
1721 Arch Street
Philadelphia 3, Pa.

WILLIAM F. TIERNAN, JR., '36
Franklin Printing Company
Primos, Pa.

ARTHUR R. KANE, JR., '36
White & Williams
1930 Land Title Building
Philadelphia 10, Pa.

HAVERFORD CLUB OF PHILADELPHIA

Meridian Club

Chancellor and Camac Sts., Philadelphia, Pa.

President.....MILTON P. KING, '49
1064 Kingsley Road, Jenkintown, Pa.

Vice-President.....ROBERT D. BROWN, '51
1616 Walnut Street, Philadelphia, Pa.

Secretary.....FRANCIS MCI. STIFLER, '25
N. W. Ayer & Son, Inc., West Washington Square, Philadelphia, Pa.

Treasurer.....WILLIAM M. MAIER, '31
1000 Provident Trust Bldg., Philadelphia, Pa.

HAVERFORD SOCIETY OF NEW YORK

President.....JOSEPH G. BILLO, '50
Baker, Voorhis & Co., 30 Smith Ave., Mount Kisco, N. Y.

Vice-President.....STEPHEN R. MILLER, '49
140 Kensington Road, Garden City, N. Y.

Secretary.....LLEWELLYN P. YOUNG, '45
114 Clinton Street, Brooklyn, N. Y.

Treasurer.....CHARLES B. CONN, '35
148 Highland Avenue, N. Tarrytown, N. Y.

Asst. Treasurer.....JAMES B. WOOD, III, '50
"Braewold", Mt. Kisco, N. Y.

HAVERFORD SOCIETY OF MARYLAND

- President*.....JOHN W. PIERSON, JR., '45
808 Kingston Road, Baltimore, Md.
- Vice-President*.....JOSEPH W. SENER, JR., '50
John C. Legg & Company, Baltimore, Md.
- Vice-President*.....V. PUTNAM MORGAN, '35
306 Kenwood Avenue, Baltimore, Md.
- Secretary-Treasurer*.....DAVID M. BLUM, '50
3104 Bancroft Road, Baltimore, Md.
- Asst. Secretary-Treasurer*.....R. RONALD RENO, JR., '54
1035 Donnington Circle, Baltimore, Md.

HAVERFORD SOCIETY OF WESTERN PENNSYLVANIA

- President*.....WILLARD E. MEAD, '26
7010 Reynolds St., Pittsburgh 8, Pa.
- Secretary*.....J. STANTON CARSON, '24
624 Frick Bldg., Pittsburgh 19, Pa.
- Treasurer*.....JAMES M. HOUSTON, '31
717 Oliver Bldg., Pittsburgh 22, Pa.

HAVERFORD SOCIETY OF WASHINGTON

- President*.....C. DALLETT HOOPES, '51
Beale & Jones, 425 - 13th St., N.W. Washington, D. C.
- Vice-President*.....CHARLES R. THOMPSON, '27
4905 Brookway Drive, Washington, D. C.
- Secretary-Treasurer*.....MALCOLM H. MCGANN, JR., '42
4468 South 36th St., Arlington, Va.

HAVERFORD SOCIETY OF CHICAGO

- President*.....EDMUND A. CARR, '33
2235 Forestview Road, Evanston, Ill.
- Vice-President*.....GIFFORD P. FOLEY, '32
Florsheim Shoe Company, 130 South Canal St., Chicago, Ill.
- Secretary-Treasurer*.....SAMRAY SMITH, (M.A. '35)
1225 North Dearborn St., Chicago 10, Ill.

HAVERFORD SOCIETY OF NEW ENGLAND

- President*.....ALBERT D. BRANSON, '41
Rath & Strong, 140 Federal St., Boston, Mass.
- Secretary*.....PHILIP F. McLELLAN, '42
Fifty State Street Co., 50 State St., Boston, Mass.
- Treasurer*.....WILLIAM G. KAYE, '54
34 Park St., Brookline 46, Mass.

HAVERFORD SOCIETY OF WILMINGTON

- President*.....ROBERT M. BIRD, JR., '38
202 Brecks Lane, Wilmington, Del.
- Vice-President*.....HOWARD W. STARKWEATHER, JR., '47
Blue Rock Manor, 2508 Bryn Mawr Avenue, Wilmington, Del.
- Secretary-Treasurer*.....MARSHALL C. GUTHRIE, JR., '37
711 Blackshire Road, Wilmington, Del.

HAVERFORD SOCIETY OF LOS ANGELES

- President*.....LOUIS J. VELTE, JR., '38
3024 Paddington Road, Glendale, Calif.
- Secretary-Treasurer*.....L. THEODORE LAWRENCE, JR., M.D., '42
3121 Carfax Avenue, Long Beach, Calif.

HAVERFORD SOCIETY OF NORTHERN CALIFORNIA

- President*.....RICHARD WISTAR, '28
Mills College, Oakland 13, Calif.

HAVERFORD SOCIETY OF SEATTLE

- President*.....JAMES F. GARY, '42
4533 East Laurel Drive, Seattle 5, Wash.
- Secretary*.....DR. ERNEST M. EVANS, '35
1012 Summit, Seattle 4, Wash.

INDEX

	PAGE
Academic Council	15
Academic Facilities	109-114
Accident Insurance	28, 109
Additional Courses	42
Administration, Officers of	13
Admission—Advanced Standing	26
Admission—Examinations	24-26
Admission—Graduate Students	45
Admission—Requirements for	23-24
Affiliations, Library	112
Alumni Associations	122-127
Anthropology	99
Archaeological Collection	113-114
Art Collection	114
Arts and Service Program	101-104
Astronomy	49-50
Athletic Fields	84-85
Autograph Collection, Charles Roberts	111
Bachelor's Degree	36-40
Beth Shemesh Museum	113
Biblical Literature	50-52
Biology	52-54
Board of Managers	6-8
Board Charges	27
Bryn Mawr College, Cooperation with	44, 112
Bucky Foundation	115
Cabinetmaking	102
Campus	114
Campus Club	108
Chemistry	55-57
Classics	57-59
Clubs, Undergraduate	107-108
Collection	45
Collections, Library	111-112
College Calendar	5
College Entrance Board Tests	23-26
College Program	17
College Responsibility	28
Committees—Board of Managers	8
Committees—Faculty	15
Community Service	102
Comprehensive Major Examination	39-40
Conflicting Courses	42

	PAGE
Corporation—Officers of	6
Corporation—Standing Nominating Committee.....	6
Course Numbering	48
Courses of Instruction.....	47-101
Curriculum	36-40
Debating	107
Developmental Reading	41, 94
Dramatics	107
Economics	59-63
Engineering	63-65
English Language and Literature.....	66-69
Evaluation of Academic Performance.....	43
Examinations for Admission.....	23-26
Expenses	27-28
Faculty—Members of	9-12
Faculty—Standing Committees of.....	15
Faculty-Student Groups	108
Fees and Special Charges.....	27-28
Fellowships—Clementine Cope	116
Fellowships—Thomas Wistar Brown.....	45
Fellowships, Prizes, and Honors.....	116-121
Field House	21, 85
Final Honors	121
Financial Arrangements	27-29
Founders Club	120
Free Electives	38
French	95-96
Freshman Program	40-41
General Courses	69-70
German	70-73
Glee Club	107
Graduate Study	45
Graduate Fellowships	45
Greek	58
Gymnasium	84-85
Health Program	109
History	73-76
History of Art.....	76
History of Haverford College.....	20-21
Honor Pledge	105
Honor Societies	120

	PAGE
Honor System	105-106
Honors—Rules for	120-121
Humanities General Course.....	69-70
 Infirmary	109
Intercollegiate Cooperation	44
 Junior Year Abroad.....	44
 Laboratories	112-113
Latin	58-59
Lectures and Lectureships.....	45
Library	110-112
Library Associates	112
Library Lectures	45
Limited Electives	37-38
Loan Fund, Student.....	29
 Machine-tool Work	102
Major Concentration	38-40
Managers, Board of.....	6-8
Master's Degree	45
Mathematics	77-79
Meeting, Friends	20
Modeling and Sculpture.....	102
Modern Iron Sculpture.....	103
Monthly Payment of College Bills.....	28-29
Music	79-81
Music Appreciation	103
Music Collection	114
 Natural History Collections.....	113
Non-Academic Electives	38, 84, 101-104
 Observatory	112
Orchestra	107
 Painting and Graphic Arts.....	103
Phi Beta Kappa Society.....	120
Philips Visitors	14, 45
Philosophy	81-84
Photography	103
Physical Education	84-85
Physical Science General Courses.....	70
Physics	85-88

	PAGE
Political Science	88-92
Prizes—List of	116-120
Professions, Preparation for.....	41-42
Psychology	92-94
Quaker Collection	111
Radio Communication	103
Reading and Recording for the Blind.....	103
Reading, Developmental	41, 94
Regulations	42-44
Resources	21
Romance Languages	94-98
Rooms	27
Russian	98-99
Scientific Laboratories	112-113
Scholarships—List of	30-35
Shipley Lectures	45
Sociology	99-101
Spanish	97-98
Special Cases	43
Special Diets	28
Special Collections, Library.....	111-112
Speech	41
Student Activities Fee.....	27
Student Aid	29
Students' Association	101
Student Committees	106-107
Students' Council	105-106
Student Government	105-106
Student Loan Fund.....	29
Student Organizations	107-108
Student Publications	108
Swarthmore College, Cooperation with.....	44, 112
Theater Arts	104
Treasure Room, Library.....	111
Tuition	27
Tuition Plan	28-29
Unit Fee	27-28
University of Pennsylvania, Cooperation with.....	44
Visitors and Lectures.....	44-45
Weekend Workcamps	104
Woolman Walk	114

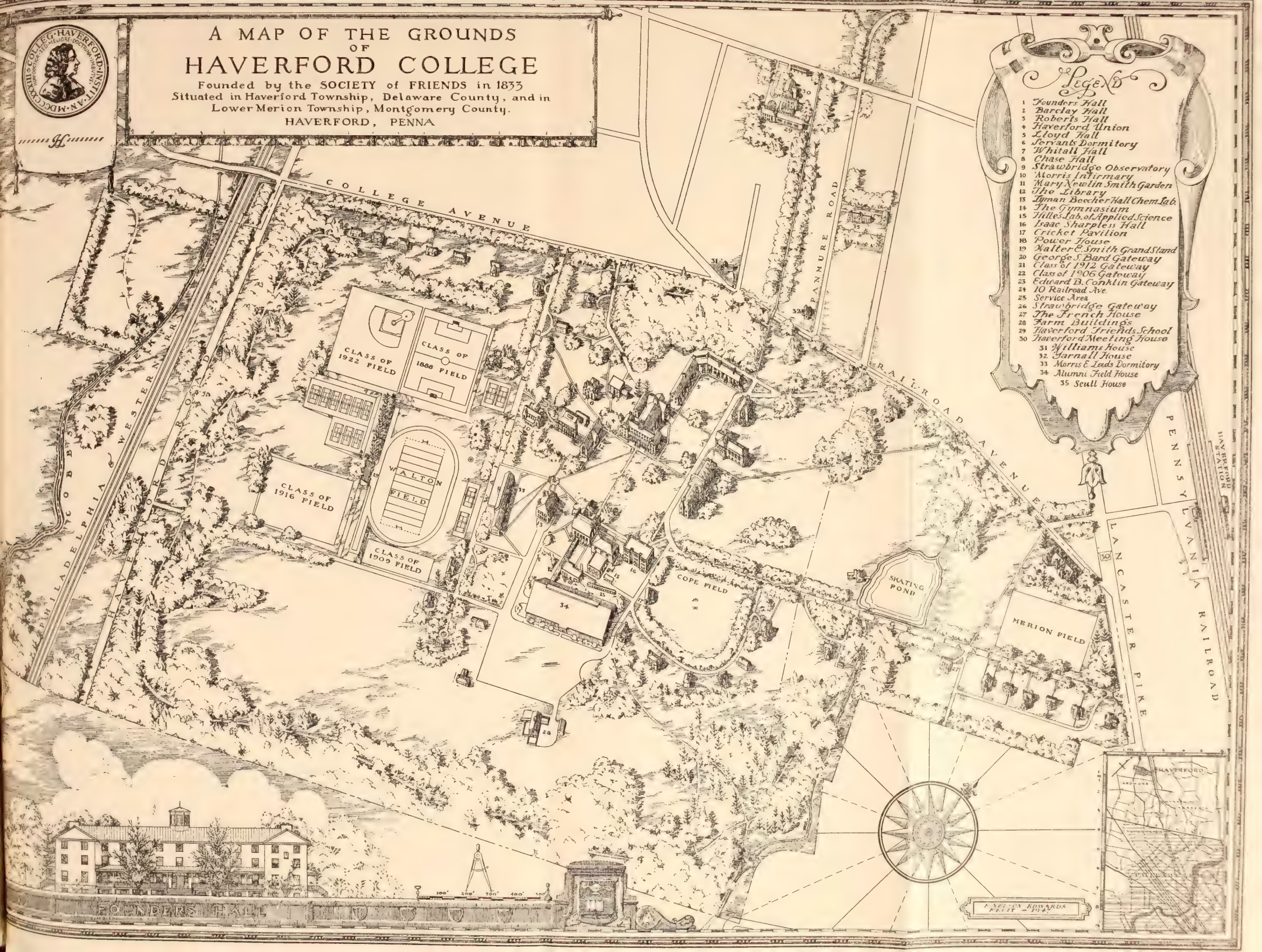


A MAP OF THE GROUNDS OF OF HAVERFORD COLLEGE

Founded by the SOCIETY of FRIENDS in 1833
Situated in Haverford Township, Delaware County, and in
Lower Merion Township, Montgomery County.
HAVERFORD, PENNA.

Legend

- 1 Founders Hall
- 2 Barclay Hall
- 3 Roberts Hall
- 4 Haverford Union
- 5 Lloyd Hall
- 6 Servants Dormitory
- 7 Whitall Hall
- 8 Chase Hall
- 9 Strawbridge Observatory
- 10 Morris Infirmary
- 11 Mary Newlin Smith Garden
- 12 The Library
- 13 Tyman Beecher Hall Chem. Lab.
- 14 The Gymnasium
- 15 Hill's Lab. of Applied Science
- 16 Isaac Sharpless Hall
- 17 Cricket Pavilion
- 18 Power House
- 19 Walter C. Smith Grand Stand
- 20 George S. Bard Gateway
- 21 Class of 1912 Gateway
- 22 Class of 1906 Gateway
- 23 Edward B. Conklin Gateway
- 24 10 Railroad Ave.
- 25 Service Area
- 26 Strawbridge Gateway
- 27 The French House
- 28 Farm Buildings
- 29 Haverford Friends School
- 30 Haverford Meeting House
- 31 Williams House
- 32 Barnall House
- 33 Morris & Leeds Dormitory
- 34 Alumni Field House
- 35 Scull House



FOUNDERS HALL

REPORT OF THE PRESIDENT

1959-1960



HAVERFORD COLLEGE

HAVERFORD, PA.

REPORT OF THE PRESIDENT

*presented at the
Annual Meeting of the Corporation
of Haverford College*

October 18, 1960

ACADEMIC YEAR 1959-60 IN RETROSPECT

THE Annual Report for the past year, if it is to reflect correctly the activities of that period, divides itself into two quite distinct parts. In the first part, I will deal in retrospect, as before, with the most important events of the College year, such as the outstanding affairs of the year, the faculty and administrative changes, and student life. In the second part of this Report, I will sketch, at least in outline form, the decisions already taken and the plans formulated for the future. This division will, I hope, convey to the members of the Corporation the fact that, throughout the past twelve months, the College has in reality been carrying on two parallel operations. One of these has been the regular life of the College; the other has been closely related to it yet concentrates on the future. At the same time, while these two operations have been proceeding simultaneously, the one has stimulated the other. Thus, the past year has been unusually busy, yet gratifying.

In addition to the events regularly scheduled each year, on October 9, 1959, the second program in commemoration of Dr. Thomas Mann sponsored by Bryn Mawr, Swarthmore and Haverford Colleges, was held at the College. The well-known writer, Glenway Westcott, delivered a lecture in Roberts Hall to a distinguished audience on "Thomas Mann: Will Power and Fiction." In the evening, the Julliard String Quartet gave inspiring renditions of four of Thomas Mann's favorite pieces, that of Beethoven's "Quartet in A Minor, Opus 132" was especially memorable. Part of Caroline Newton's collection of

Thomas Mann's first editions, letters and memorabilia were on display in the Treasure Room of the Library. The College is greatly indebted to the generosity of Caroline Newton for this opportunity to share in the memory of one of the great minds and personalities of our time.

I should like to emphasize three special phases of the Commencement exercises held on June 3, 1960. In the first place, though the graduating class was one of the smallest in many years, totalling only seventy-five, it made up in honors what it lacked in numbers. Ten of its members were recipients of the coveted Woodrow Wilson Scholarships for prospective teachers, the second largest number proportionately to receive these awards throughout the country. Two Fulbright Scholarships and several others were awarded to other graduates.

Secondly, the College had tried unsuccessfully, for the past three years, to persuade Philip Noel-Baker of London, to come back to his Alma Mater again. It was a rare privilege, therefore, to welcome this renowned athlete, member of Parliament, and Nobel Peace Prize winner on the fiftieth anniversary of his class and to confer upon him an honorary Doctor of Laws degree.

Finally, on authorization of the Board of Managers, I was greatly pleased to present Certificates of Appreciation to five of the College's employees in recognition of the service which each of them has rendered for more than thirty years. Many of you will know them personally and immediately realize our debt to them. They are Gertrude M. Wonson of the Admissions Office, Ruth H. Reese of the Library staff, Louis Coursey and Clifford Chapin of Operations' Personnel and Dock Young of Food and Housing.

THE FACULTY

As in the past, there have been several important changes in the membership of the Faculty. But the large number of new names appearing on this year's roster does not mean that there has been a sudden profusion of resignations or permanent changes. On the contrary, the four resignations effective this fall is equal in number to the average of the last three years. They came from Professor William Reitzel in Social Science, Associate Professor Robert Wisner in Mathematics, and Assistant Professors Robert Horn in Biblical Literature and Gerald

Freund in Political Science. Two of these men have important research and administrative assignments, two of them have transferred to other institutions. We will miss them and the contributions they were making to the College.

Furthermore, this year saw the accumulation of the equivalent of fifteen vacancies, caused equally by the termination of temporary or short-term appointments, normal sabbatic leaves and special leaves without pay. This situation, which was largely beyond the control of the College, required extensive searching for qualified replacements. In some cases, excellent one-year appointments have been made, in others the part-time services of highly competent professors from nearby universities and colleges were secured. While such changes necessitate some readjustments by the departments, they are more than warranted when it is realized that four of the five men on sabbatic leave have National Science Foundation Fellowships or similar grants, two of them for advanced study. Three of those on leave without pay have research grants from the Social Science Research Council, the American Council of Learned Societies, and the National Science Foundation, respectively, and another is on a Fulbright Exchange Fellowship in Taiwan. This recognition, by the outstanding scholarly bodies in this country, of the exceptional qualifications and ability of our Faculty, bodes well for Haverford in the future. By experiences gained away from the campus, they will return better equipped to teach our students.

I should also like to point out that, among the new appointments for the present year, an unusually large number were in the higher ranks, thus adding mature teaching experience and scholarship to our Faculty. In the first place, the College is most fortunate to have secured the services of Professor Craig Thompson as Librarian and Professor of English and History. Professor Thompson was Professor of English at Lawrence College and is an eminent specialist on Erasmus, author of *Ten Colloquies of Erasmus* and other important studies on the Renaissance. This appointment has added strength both to the Humanities Division of the Faculty and to the Library. For the first time, we now have a regular Faculty member whose primary responsibility is the Library. Before passing to the other most significant Faculty appointments, I wish to express the appreciation of everyone at the College for

the ten years of faithful and extremely useful services which Professor John A. Lester, Jr. rendered as Librarian, even though this assignment was only one of many important ones he held.

Of the four new Associate Professors appointed this year, Professor Earl H. Pritchard of the University of Chicago is on joint appointment with Bryn Mawr and Swarthmore, for the current year, as Director of the Asia Program. His chief task is guiding a Faculty Seminar on Chinese Civilization attended by fourteen members from the three faculties. Under the arrangement with the Ford Foundation, which sponsors the program, these Faculty members are relieved from some of their teaching load to enable them to attend the Seminar. He also is giving a course in Chinese Cultural History to the undergraduates. The College is most fortunate, also, in the other three appointments it has made at the rank of Associate Professor; Philip Bell in Economics—who returned to Haverford College after teaching three years at the University of California, Professor Alfred Diamant from the University of Florida in Political Science, and Professor Paul Hare of Harvard University in Sociology. From the impact these men have already made on the College during their first month, it is clear their future contributions will be immeasurably valuable.

In view of the increasing opportunities for Faculty members to obtain grants for research and to be invited to fill temporarily important positions elsewhere, it seemed advisable to regularize the policy for granting leaves of absence. Consequently the Board of Managers adopted a statement which reiterated its policy on sabbatic leave, namely, that a Faculty member is eligible for such leave after six years of service in the rank above instructor, and providing this leave is used for activities that will increase the Faculty member's usefulness to the College. The statement also provides that a professor may request leave without pay for the same purpose or to carry on activities professionally rewarding to him and defines certain limitations connected with these leaves.

The high caliber of our Faculty is attested to by their continued outstanding teaching, their impressive list of publications, given elsewhere in detail in this report, and by the research grants they continue to receive. As for the former, three recent works should be cited, namely, the two-volume study on *Nuclear Spectroscopy* edited by Professor Fay

Selove, *Austrian Catholics and the First Republic: Democracy, Capitalism and the Social Order, 1918-34* by Professor Alfred Diamant, and a comparative study of the three poets, *Spenser, Ronsard and DuBellay*, by Alfred Satterthwaite.

The Faculty Research Fund, inaugurated by the Board of Managers in 1957, and now carried as an annual budget item, has proved to be of sufficient importance to the Faculty to be brought to the attention of the Corporation. It has been particularly valuable for those projects for which other support is not available. During the past three years, sixty-three grants, ranging from a few dollars to over one thousand dollars, have been made to support projects of thirty faculty members for a total of approximately \$25,000. One such grant, for example, helped the Princeton Press publish Professor Satterthwaite's book.

By this emphasis on research, however, I must also point out that in seeking new Faculty members and in considering old ones for promotion, the College considers the ability to teach as a most important prerequisite. We continue to be proud of the Faculty and know that the future educational success of the College is in good hands.

CAMPUS LIFE

The attitude of the students towards their studies, and all aspects of College life, continues to improve. During the past year, the rate of attrition was further reduced and only a minimum number of seniors failed to graduate with their class. It is also gratifying to report that the improved moral tone of the student body has been reflected in a deeper silence and more frequent student speaking in Fifth Day Meeting.

The College opened in September 1960 with an enrollment of 466 undergraduate, four special and two graduate students, drawn from 31 states and 8 foreign countries. The undergraduate enrollment is somewhat larger than we have had recently. It is the result of having graduated a relatively small class in June and of less attrition in the other three classes. With the graduation of this year's senior class of 114, we expect to return next year to our usual average of about 450.

The application list for the freshman class was slightly over 650, an 8% increase over last year. We anticipate a similar increase this year.

Admission was offered to 168 to secure the class of 118. Because of our concern to keep down the size of the College, we admitted only two transfer students from a list of forty-five. It is hoped that conditions next year will permit us to implement further the new policy that a larger number of transfer students be admitted to the junior class.

THE STRAWBRIDGE OBSERVATORY

The Strawbridge Observatory continues to serve the students of astronomy as well as the community. It was open to the public on seven nights during the year, and, on these occasions, 147 visitors took advantage of this opportunity to look through the telescopes. Furthermore, the annual convention of the Astronomical League, the national association of amateur astronomers, was held at the College during the summer. Some two hundred and eighty persons were in attendance, a number of whom came from as far away as the West Coast, Hawaii, Puerto Rico, Cuba, and Canada. The group listened to lectures, examined numerous exhibits, visited the Observatory, and were addressed at their annual dinner by its Director, Professor Louis Green.

PLANT, BUILDINGS AND GROUNDS

Thanks to an abundance of rain during the summer and early fall, and the constant and skillful care of the ground crews, the campus is more beautiful than ever. Our regular care of the trees saved us from serious damage to them by the hurricane last month. We are continuing our constant routine upkeep of all of our buildings.

Of the three most important physical improvements during the summer, only two are visible, namely, new flooring on Founders Hall porch and the dredging of the skating pond. The other, a completely new heating system for Barclay Hall, was undertaken on the advice of our Consulting Engineers.

ANNUAL GIVING

For the fourth successive year, Annual Giving has surpassed previous achievements in total amounts and, particularly, in terms of giving by non-alumni parents, and in the percentage of Alumni participating.

Even with an increase in tuition charges by over ten per cent, parents have increased their giving by twenty-five per cent. We are particularly grateful to them for this significant support. Nearly fifty-six per cent of our total Alumni contributed during last year, a new record. In contrast to the previous year, however, gains in the number of Alumni donors were proportionately higher than the dollar gains. Nevertheless, the total of gifts included in the program amounted to \$160,178.

Obviously, the importance of support of this kind for our current operations cannot be overemphasized—representing as it does eight per cent of the College budget. As “living endowment,” it is equivalent to the income on four million dollars. Laird H. Simons, Jr. '39 and his corps of four hundred class chairmen and representatives deserve the thanks of all of us.

As I intimated a year ago, Annual Giving is not sufficient in itself to take care of our capital needs and will, during the next two years, be merged with a drive for capital funds. In that drive, we have allotted a total of \$350,000 as a reasonable amount to consider as Annual Giving for the two years. Obviously, the campaign's success will depend on all of the same people who have done so much for us in these past four Annual Giving drives.

A YEAR LOOKING TO THE FUTURE

If I were to describe in a single phrase how the academic year 1959-60 differed most significantly from the other three years on which I have reported, I would have to say “We have been concentrating on and working for the future.” You will recall that in my last report I referred to a study entitled “A Guide for Planning the Future Size of the College” which was to be submitted to the Board and Faculty for their consideration. I also noted that the architectural firm of Vincent G. Kling had been commissioned by the College to make a study of our present facilities to help clarify our future needs. Both of these were the beginning of concentrated planning for the future by the Board, the Administration and the Faculty.

This planning produced three results: a preliminary analysis of the educational aspects of the College, a decision to construct a new building for the chemistry, mathematics and physics departments, and

agreement to prepare for a new capital fund drive to meet the immediate needs of the College, estimated to be \$3,600,000.

As for the educational program of the College, "The Guide" was considered by the Board of Managers at a special meeting held in November 1959. Shortly thereafter, it was discussed by the Faculty, many of whose members raised objections to some of its assumptions. Subsequently, the Faculty adopted a report on "The Guide" which noted that firm plans for the future, whether in terms of the size of the student body or the optimum curricular and educational policy, could not be formulated until after further study was made of the College. It was generally agreed, however, that many of the classes in the freshman and sophomore courses were too large, the transfer of properly qualified students into the upper classes should be encouraged and new efforts should be made to improve the effectiveness of cooperation among Bryn Mawr, Swarthmore and Haverford. Furthermore, a special Faculty committee began work on what the optimum educational plan of the College should be. This committee is expected to make its initial report shortly.

The question of new facilities, especially for our science departments, has absorbed more time during the past year than any other problem. At the special meeting of the Board of Managers in November 1959, Vincent G. Kling presented the charts and studies he had made of the existing physical facilities of the College and some proposed solutions for immediate and long-range problems. As set forth in the January 1960 issue of *Haverford Horizons*, he recommended as a first step the expansion of our science facilities by constructing a new building for the Chemistry, Physics, and Mathematics Departments, the remodeling of Sharpless Hall, and the construction of a new dormitory to relieve over crowding.

While the architect's plan also included other important changes, the Board considered these to be of the first priority. Five different proposals were considered for the new science building. At another special meeting in June 1960, the Board agreed that a new building which would accommodate the Chemistry, Mathematics, and Physics Departments should be located in the area north of the Morris Infirmary and east of Walton Road, making the present Chemistry Building available for other departments and permitting the Biology and Psychology De-

partments to expand in Sharpless Hall. At the same time, Philip G. Rhoads, '24, was designated Chairman of the new Building Committee and was authorized to begin negotiating a contract with Vincent G. Kling as architect for the new structure.

Extensive and careful estimates of space requirements were prepared by the departments concerned, discussed with the architects and reviewed by Philip Rhoads' committee. At the present time, the architect is working on the preliminary plans for a building which will provide ample but necessary classrooms, laboratories, a library and other joint facilities as well as a lecture-auditorium room for 250 persons. The building, as now contemplated, will contain about sixty thousand square feet and will cost approximately \$2,000,000. When this is completed, and Sharpless Hall is modernized, the College will finally have science facilities worthy of the high standards of academic excellence which it claims for itself. We have been fortunate that our old buildings have served us so well so long, but we now have no alternative but to go forward with this new construction. Expensive as it may seem, it is a necessity and in no sense a luxury. Of equal importance are urgent needs for the Library, a dormitory, faculty salaries and substantial additional funds for students' scholarships and loans. These total \$3,600,000.

Consequently, the Board of Managers and the College have been active, under the general direction of Walter C. Baker, '35, Vice President for Development, in formulating plans for a capital funds campaign. In January 1960, the Board of Managers approved of launching a fund drive and recognized initial needs totalling \$3,600,000. It authorized the College to proceed to develop the organization for such a drive, leaving to a later date the setting of a goal of such a drive.

Marked progress has been made in this direction. The College has secured the services of John F. Rich Company as a fund-raising consultant and George Eberhardt, its vice president, has been assigned to us for a year on a full-time basis. The key officers in the campaign have been selected and have already given liberally of their time and wisdom. Dr. Jonathan E. Rhoads, '28, has consented to serve as Chairman and is ably assisted by H. Richard Heilman, '25, as co-Chairman. Dr. S. Emlen Stokes, '14, Chairman of the Board of Managers and President of the Corporation for the past fifteen years, has accepted the additional post

of Chairman of the Advance Gifts Committee. John S. Williams, '20, J. Barclay Jones, '21, and Arthur R. Kane, Jr., '38, have agreed to help us as Vice Chairmen of the Campaign with Dr. Eric Ball, '25, and Owen B. Rhoads, '25, co-Chairmen of the Foundations Committee and Benjamin Loewenstein as Chairman of the Alumni Teams Organization. Several organizational meetings have already been held and we anticipate approaching foundations for support in the very near future. Our present schedule calls for the completion of the solicitation of most of the special gifts by the end of this calendar year. We will then be in a position to complete the organizational work shortly thereafter and launch a general two-years drive in the early spring or fall.

I hope the foregoing has given you some indication of the extra time and effort so many of the Board members and other alumni have spent during the past year. In addition to the regular meetings, the Board has held three special meetings to consider the questions of new science facilities and a capital fund drive. I wish to thank them all for their willing assistance.

I know of no more worthy cause to which we can and must lend our energies. There is no alternative but success. From the enthusiastic response to our requests for help which we have already received from alumni and friends, it is clear that those of us who owe so much to the College will rally to its support at this time of need so that we may, as in the past, carry its torch proudly and high.

HUGH BORTON

STATISTICS FOR REPORT OF THE PRESIDENT

1959-1960

ENROLLMENT

Fall Semester, 1956	458
Spring Semester, 1957	441
Fall Semester, 1957	455
Spring Semester, 1958	458
Fall Semester, 1958	458
Spring Semester, 1959	434
Fall Semester, 1959	452
Spring Semester, 1960	443
Fall Semester, 1960	472
<i>Undergraduate Students</i>	466
<i>Graduate and Special Students</i>	6

COMPOSITION OF THE STUDENT BODY, FALL SEMESTER, 1960

The student body represents 31 states. The following foreign countries are represented: Chile, France, Germany, Hong Kong, Hungary, India, Japan, Korea and Nigeria.

Students who are members of the Society of Friends number 53, or 11% of the total enrollment, and 62 students are sons of Alumni, or 13% of the total enrollment.

REGISTRATION IN ACADEMIC COURSES

<i>Department</i>	<i>Registration (Fall & Spring Semesters)</i>								
	Fall, 1960	59-60	58-59	57-58	56-57	55-56	54-55	53-54	52-53
Astronomy	57	85	74	56	63	49	76	76	86
Biblical Lit.	41	103	132	78	105	86	71	53	69
Biology	101	219	266	234	318	318	185	201	189

REGISTRATION IN ACADEMIC COURSES

<i>Department</i>	<i>Registration (Fall & Spring Semesters)</i>								
	Fall, 1960	59-60	58-59	57-58	56-57	55-56	54-55	53-54	52-53
Chemistry	124	289	268	279	366	382	410	422	399
Classics	77	108	(Greek and Latin)						
Economics	141	255	271	269	228	227	243	230	168
Engineering	28	46	43	64	46	57	46	63	68
English	342	609	650	700	605	637	673	660	761
French	109	162	220	245	251	253	225	208	202
Geography							13	19	21
German	126	217	246	206	209	166	180	218	233
Greek (now Classics).			39	27	27	31	31	22	42
History	142	300	283	269	237	184	209	218	210
History of Art . .	41	65	50	56	50	70	69	73	58
Latin (now Classics).			28	44	74	34	38	25	33
Mathematics . . .	189	345	333	330	333	307	284	316	292
Music	69	95	90	64	39	31	45	33	36
Philosophy	209	394	351	306	317	334	348	390	386
Physics	75	197	206	192	138	188	156	125	158
Political Science.	150	302	248	297	231	290	274	260	341
Psychology	43	160	149	286	127	169	175	236	195
Russian	28	72	48	16	11	15	12	23	32
Sociology	140	205	243	172	142	129	114	139	115
Spanish	40	84	70	85	105	98	95	111	114

General Courses

E. Asian Studies (now Hist. 37-38)				60					
Humanities	57	110	135	139	201	165	181	97	132
Physical Science.	4	33	20	30	—	—	58	56	84
Social Science . .					249	250	260	279	287

HAVERFORD STUDENTS AT BRYN MAWR

Archaeology	1
Anthropology	3
English	6
Economics	13
French	1
Geology	4
History	4
History of Art	9
Music	3
Psychology	7
Russian	5
Spanish	1

SWARTHMORE COLLEGE

Biology	1
English	1

UNIVERSITY OF PENNSYLVANIA

Linguistics	1
Mathematics	3
Physics	2
Slavic Dept.	1
Sociology	1

DEGREES GRANTED, JUNE 3, 1960

B.A.	75
B.S.	8

COLLEGE VISITORS

1959-60

Collection (Weekly Assembly) Speakers

John W. Bodine, president and executive director, Penjerdel

*Jacob Bronowski, author and scientist

*Alan Bullock, Master, St. Catherine's College, Oxford

Henry D. Cowell, Peabody Institute

Bergen Evans, professor of English, Northwestern University, author

Maurice Friedman, professor of philosophy, Sarah Lawrence College

Otto Klineberg, professor of psychology, Columbia University

Alfred A. Knopf, publisher

Thurgood Marshall, director-counsel, N. A. A. C. P. Legal Defense and Educational Fund, Inc.

Richard Miles, British Information Service

Hans Morgenthau, Washington Center of Foreign Policy Research, and the University of Chicago

Vance Packard, author

Howard C. Petersen, president, Fidelity-Philadelphia Trust Co.

William G. Pollard, executive director, Oak Ridge Institute of Nuclear Studies, ordained minister of the Protestant Episcopal Church

Victor Seixas, internationally-known tennis player

**Ernest J. Simmons, professor of Russian Literature, Columbia University

***Henry Nash Smith, chairman of the English department, University of California, Berkeley

*Sir Charles P. Snow, novelist, scientist

Edwin A. Speakman, '31, Defense Electronics Products, Radio Corporation of America

Gilbert White, former president of Haverford College, chairman Department of Geography, University of Chicago

Collection Speakers, from the College

Hugh Borton, president

Martin Foss, lecturer in philosophy, emeritus

Frederick C. Schulze, '60

Departmental and General Visitors

*John Atkinson, associate professor of psychology, University of Michigan
Selden Bacon, administrator for Behavioral Research Programs, Lankenau Hospital

David L. Bazelon, Circuit Judge U. S. Court of Appeals, Washington, D. C.

*R. E. Billingham, Wistar Institute of Anatomy and Biology

[FOURTEEN

- Curtis Bok, Justice, Pennsylvania Supreme Court
 Claude Bourdet, editor, France-Observateur
 H. Allan Bradley, headmaster, Friends School, Kenya
 *Jacob Bronowski, author, scientist, director of British Coal Research Establishment
 Albert Brown, Deputy Police Commissioner
 John Buanono, psychiatrist, Devereaux Schools, Devon
 *Alan Bullock, master, St. Catherine's College, Oxford
 Hugh Caldwell, professor, University of the South
 *Melvin Cohn, professor of biochemistry, Stanford University
 Olcott Deming, former U. S. Consul, Okinawa
 George E. Duckworth, Giger Professor of Classics, Princeton
 *James D. Ebert, director, Department of Embryology, Carnegie Institute of Washington
 Alexander Eckstein, Department of Economics, University of Rochester
 Harry Eckstein, associate professor of politics, Princeton University
 *Henry Eyring, dean, professor of chemistry, University of Utah
 Roderick Firth, professor, Harvard University
 Allan Goodman, attorney
 Leonard Green, administrator, The Devereux Schools, Devon
 *Wilhelm Grewe, Ambassador of the Federal Republic of Germany to the United States
 *Alvin H. Hansen, emeritus professor of economics, Harvard University
 Erick Hawkins, dancer
 Stanislaw Helsztynski, professor of English, Warsaw University
 *Jack Hine, professor of chemistry, Georgia Institute of Technology
 *Robert Holt, director, Research Center for Mental Health, New York University
 William Hubben, editor, The Friends' Journal
 Gifford Irion, hearings examiner, Federal Communications Commission
 E. D. H. Johnson, professor of English, Columbia University
 S. F. Johnson, professor of English, Columbia University
 Ifor Jones, conductor, Bethlehem Bach Choir
 Roger W. Jones, chairman, U. S. Civil Service Commission
 Julliard Quartet
 *Elvin A. Kabat, professor of microbiology, Columbia University
 Mr. and Mrs. Khagndranath Sen, school administrators, Bombay, India
 *Charles Kittel, professor of physics, University of California
 George L. Kline, professor, Bryn Mawr College
 Lilian Knowles, contralto
 Helmuth Kuhn, professor, University of Munich
 Richmond Lattimore, professor, Bryn Mawr College
 William M. Lee, '46, assistant treasurer, First Pennsylvania Banking and Trust Company
 *Cyrus Levinthal, professor of biophysics, Massachusetts Institute of Technology
 Robert Lowell, poet

Rex Marlowe, commissioner, Federal Mediation and Conciliation Service
Thomas McConnell, III, '19, vice president, C. Schmidt & Sons
Charles B. McLane, Department of Russian Civilization, Dartmouth College
Paul Mishkin, professor of law, University of Pennsylvania
Sondra Nemser, physician and gynecologist, Philadelphia

*Hans Neurath, professor of biochemistry, University of Washington School of Medicine

*Abraham Pais, Institute for Advanced Study, Princeton, N. J.

*W. K. H. Panofsky, professor of physics, Stanford University

*Leo Postman, professor of psychology, University of California

*Hans Rademacher, professor of mathematics, University of Pennsylvania

A. E. Raubitschek, associate professor of classics, Princeton University

Cyril C. Richardson, Washburn Professor of Church History, Union Theological Seminary

*Carl Rogers, professor of psychology and psychiatry, University of Wisconsin School of Medicine

Richard Sabatini, professor of economics, University of Rhode Island

Eugene Schneider, Bryn Mawr College

John Scott, special assistant to the publisher of TIME magazine

Alexander E. Seigienko, assistant to the dean, Harvard Graduate School of Education

*Irwin Sizer, chairman of the biology department, Massachusetts Institute of Technology

John E. Smith, professor of philosophy, Yale University

*Sir Charles P. Snow, novelist, scientist

*Tracy M. Sonneborn, professor of zoology, Indiana University

*Gerhard Stüvel, counsellor, chief of National Accounts Division, Organization for European Economic Cooperation

William B. Taylor, assistant regional director, AFL-CIO

Willard Thorp, chairman, Department of English, Princeton University

Andre Trocme, International Fellowship for Reconciliation

*Albert Tyler, professor of embryology, California Institute of Technology

Burghart Wachinger, general assistant, Germanistic Seminar, University of Munich

Roger H. Walmsley, Physics Department, University of Pennsylvania

Miss C. V. Wedgwood, Fellow, Royal Historical Society

*Victor F. Weisskopf, professor of physics, Massachusetts Institute of Technology
Glenway Westcott, author

Peter J. D. Wiles, Fellow, New College, Oxford

Robert B. Wolf, lawyer

*Philips Visitor

**Phi Beta Kappa Visiting Scholar

***The Shipley Lecture of the English Department

REPORT OF THE LIBRARIAN

1959-1960

At the conclusion of another busy year of service by the Haverford College Library, it is evident that most of the topics to be covered in this report are fairly routine. The single exception may be stated at once, even though it is well known to all members of the College community. I refer, of course, to the retirement of Professor John A. Lester, Jr., as Librarian. After ten years of enlightened, energetic, and successful labor, Professor Lester gave up this office in August, 1960. On sabbatical leave in 1960-61, he is spending the year in England, where he resumes research on nineteenth-century English literature. We all hope that his counsel will again be available to the Library when he resumes his teaching duties a year hence.

As his successor, I shall try to continue and strengthen the progressive policies of his administration. And although the events described in this report refer to the period before my work began, I hope I may be permitted a few first impressions or observations.

The Haverford Library enjoys some unusual resources and advantages, but it has also, in common with most libraries, certain persistent problems. It must grow, for an academic library that does not grow simply stagnates. Yet growth must be intelligently planned and directed in accordance not merely with the size of the College but with its intellectual purposes, potentialities, and aspirations. Our Faculty and Administration take a gratifyingly active interest in the Library and understand its central role in a Haverford education. We have reason to hope that, with sufficient financial support for building, staff, and collections, and with imaginative utilization of new schemes for cooperation among libraries in this vicinity, we shall come closer to attaining university resources whilst enjoying the undeniable advantages of a small college.

Nearly all libraries, Haverford's included, are plagued by the problem of finding more space. In recent years bold and, on the whole, rewarding attempts to solve this problem have been made in various parts of the country by means of deposit libraries. A deposit library is a storage building in which shelf space can be rented by a number of

libraries in the neighborhood. Overcrowded libraries may transfer to it any materials they wish. Of course they retain ownership of these materials. Bound periodicals, newspapers, and books that are little used but too valuable to discard can be stored in the depository, used there, and if necessary brought back to the campus from time to time.

A few months ago the University of Pennsylvania acquired a building in Philadelphia for use as a deposit library, to be administered by the Union Library Catalogue. Unfortunately the response to this project on the part of libraries in the Philadelphia area was so disappointing that plans for a depository will not be pursued at present. A central depository in Philadelphia seems such a useful idea that it is hard to understand why no stronger interest was shown. We must hope that plans will be pushed more vigorously. Certainly a deposit library would be a benefit to Haverford. It would not solve most of our space problems but would, for some years, alleviate a number of the more vexatious ones.

One small but definite step taken in 1959-60 toward interlibrary cooperation is represented by the beginning of active work by the Committee on Acquisitions and Discards of the Philadelphia chapter of the Association of College and Research Libraries. As a result, our Library has entered subscriptions to two scientific journals, *Biokhimiia* (Moscow) and *Bios* (Leipzig), and the Library Committee has approved the proposed purchase of back runs of these journals. This is a small but significant decision, for it means we are thinking, and must think more, of this Library's development in close cooperative accord with that of other library resources in the Philadelphia area.

The main Library acquired its first microcards of periodicals in 1959-60. (The Department of Chemistry's departmental library has been getting microcard sets for several years.) Also substantial additions of past volumes of *The New York Times* in microfilm were made during the year.

COLLECTIONS

Statistics appended to this report show that the total number of volumes as of June 30, 1960, was 216,345. In the past year 3,639 books were added. At first glance this appears a smaller number than in the

preceding year (3887) but statistics in the present report cover a nine-month period and not a twelve-month one. Student borrowing was heavier, the number of volumes put on reserve shelves by Faculty distinctly smaller—both welcome signs. Twenty-five new periodicals were added in 1959-60. Some bound sets of scientific journals, no longer needed, were sold. Some others, also sold, were replaced by microcards. We now receive about 790 serials, a large number for the library of a small college. These are wanted for Faculty and student work, but it must be stated plainly that unless our resources grow we can scarcely afford to add more periodicals without canceling some that we now take.

This is simply another way of stating the disagreeable but familiar fact that the cost of books and periodicals keeps rising. Consequently, if the quality and scope of our collection is to be maintained in conformity with the standards of Haverford education, as they must, the Library's needs in books and staff will inevitably cost more to fulfill. Since the Library is the vital center of study on the campus, its character has direct and decisive bearing on the effectiveness of Haverford training.

Today many libraries must be custodians not only of books and periodicals but of the phonograph records used in the work of some academic departments. Besides this, students deserve an attractive place where they can play recordings of music and literature. The class of 1960 had the happy thought of presenting to the College \$170 for the purchase of phonographic recordings of literary works, including poetry, prose, and drama. These are to be made available to individual students as well as for class use. We hope to ascertain shortly whether it would be practicable to keep in the Reserve Book Room all recordings owned by various departments. At present the Music Department has some on deposit there, but it might be wise to make that room the storage place for all departmental recordings. We have no very suitable room now where records can be played. Two record-players in the Micromaterials Room in the basement are available to students who want to use the records kept in the Reserve Book Room, but we ought to have a Music and Poetry Room, comparable to the Gummere-Morley Room, where records could be stored and where students could listen to them in comfortable surroundings.

ADMINISTRATION

Last year's report spoke sorrowfully of disciplinary problems and the necessity of making more stringent rules regarding book-borrowing, both intramural and extramural. Excepting one or two infractions of unpleasant duration, the record in 1959-60 was a much improved one. Conditions now seem to be back to normal.

STAFF

In June, 1960, Miss Hilary Ferrand completed a year as second holder of the Haverford Fellowship in Library Science.

Mrs. Evelyn Lyons resigned as cataloguer and Mrs. Ann Orr as secretary.

Mrs. Marjorie F. Davis was appointed a Senior Library Assistant for 1960-61. Mrs. Davis is now finishing work for the M.S. in L.S. degree at Drexel Institute of Technology. Mrs. Jean Le Boutillier replaced Mrs. Orr as secretary. Mrs. Cynthia Love Estes, a recent graduate of Colby College, joined the staff as Library Assistant.

PHYSICAL PLANT

Two long-needed improvements, much appreciated by the Staff, were made during the summer. The Librarian's office was painted and refurnished. The Staff Room was air-conditioned. It is hardly necessary to add that this latter change makes work in the Staff Room far more tolerable than it had been before. We continue to hope that science will come to the aid of the arts by devising a feasible means of making the rest of the building more habitable in warm weather. Books and readers both require more ventilation than they can get in this Library between May and October.

Reference was made above to the need for a Music and Poetry Room. Equally desirable are rooms where students may type, and—as always—more storage space for books and periodicals. Even if a deposit library should be established in Philadelphia, we shall still need considerably more space in our present building in the next decade. Renovation of the South Wing and the building of a balcony there, as was done in the North Wing, seems an obvious and indeed urgent

desideratum. A vault for the Philips and other rare books is equally urgent.

If these remarks appear to put more stress on needs than accomplishments or possessions, and to look to the future as much as to the past, my excuse must be that first impressions are sometimes powerful ones. I do feel most strongly that the Library must look ahead, and that the day is not far distant when more space for books and periodicals will have to be provided.

GIFTS

The Library is grateful to friends, both graduates and others, for donations of useful books. The list that follows is selective.

From an anonymous donor, \$2500.00. Half of this was used for the purchase of books, half for processing various purchases.

From Grier Bartol, 370 books of general interest, many of them history and literature.

From Mrs. Joseph Birdsall, several sets of eighteenth-century novelists and some other volumes.

From William Cadbury, Sr., a large photograph of Founders Hall.

From Henry J. Chapin, a drawing of the College, 1910.

From Robert C. Clothier, a collection of pamphlets.

From Philip L. Corson, a subscription to two periodicals.

From Philip C. Duschnes, the eighty-five remaining copies of Christopher Morley's *Footnotes for a Centennial*.

From the Ford Foundation, \$2500 for the purchase of books for the Asian Studies Program.

From Albert Fowler, a small but valuable collection of books, mainly in literature of the sixteenth to nineteenth century.

From the estate of Gladys Griscom, 1050 miscellaneous volumes relating to history, religion and the arts.

From Nelson Hogenauer, a set of books on chess and of notes on chess at Harverford.

From the Japanese Government, on the occasion of the Japan-United States Centennial celebration, \$400 worth of books (in English) on Japanese history and culture.

From the John Anson Kittredge Educational Fund, \$250 for the purchase of books on foreign relations and diplomatic history.

From Barrett Parker, \$25 for the purchase of books on international affairs.

From Grace Howard Peterson, in memory of Charles Jacob Peterson and Sarah Howard Peterson, thirty-five volumes, including presentation and autographed books by minor nineteenth-century authors; also a fine three-volume set of Pyne's *History of the Royal Residences* (1819), with hand-colored engravings, a good folio copy of Van Dyck's *Icones Principum Virorum*, and a good folio edition of Dante with illustrations by Doré.

From W. Charles Read, an autographed copy of Samuel Wilberforce's *History of the Protestant Episcopal Church in America* (1844).

From William Reitzel, 167 volumes mostly on world affairs and foreign policy.

From R. Arnold Ricks, a volume of first-edition poetry of Brooks, Drinkwater, Abercrombie, and Gibson, together with three autographs.

From Dr. Frederic C. Sharpless, a miscellany of modern books, mainly literature and history.

From Elizabeth Williamson, a ten-volume set, *Japan: Described and Illustrated by the Japanese*; and other volumes.

From the Wyeth Laboratories, \$25 for the book funds.

The Library is once more indebted to Charles N. Welsh, '51, for his voluntary services as a reference and research assistant to the staff.

The Library Associates held four meetings in the Treasure Room during the year, and it is recorded with gratitude that they continued their laudable custom of contributing funds for the purchase of books of current interest.

Finally the Librarian wishes to express his thanks to the staff, particularly the Assistant Librarians, Mrs. Ruth Reese and Mrs. Esther Ralph. At the 1960 Commencement the Board of Managers, in recognition of the completion of thirty-two years of meritorious service to the Haverford College Library by Mrs. Reese, presented her with a certificate and a gift.

CRAIG R. THOMPSON

STATISTICS FOR REPORT OF THE LIBRARIAN

1959-1960

Growth of Collections

Total number of volumes (as of June 30, 1960)	216,345
Number of volumes added in 1959-1960:	
By purchase	2,597
By gift	786
Government Depository	256
Number of books discarded	1,310

Circulation

Faculty and staff borrowings	3,390	
Students	15,030	
Outside borrowers	4,958	
Total		23,378
Books charged out to carrels	955	
Total		24,333

Reserve Book Room

Books put on reserve	2,834
Reserve book circulation:	
Library use	19,556
Overnight	4,684
Total	24,240

Interlibrary Loan

Borrowed	340
Loaned	900

REPORT OF THE CURATOR OF THE QUAKER COLLECTION

1959-1960

Visitors to the Treasure Room since the spring holiday have been struck by the great event of the year (or of eighteen years!), as far as the physical surroundings are concerned, for a coat of clean fresh paint on ceiling and walls has worked what seems like a metamorphosis. From a cloudy accumulation of dirt, fading colors, and flaking plaster we were suddenly delivered by the College painters, and the Treasure Room now has the sparkling appearance which it first displayed in 1942, when the generosity of Morris E. Leeds, then Chairman of the Board of Managers, and the skill and taste of E. Nelson Edwards, '10, transformed the dingy old stack building into its present beautiful and useful form. Nelson Edwards again supervised the choice of colors—an off-white and a soft green—as he did originally, and with equally pleasing results. The room is again the suitable setting which it was designed to be for the Quaker Collection and the rare books of the library.

An appropriate addition to the Treasure Room now hangs on its freshly painted walls, in the form of a portrait of Morris E. Leeds (1869-1952), by M. L. Bower, presented to the Library by the former Mrs. Leeds, now Hadassah Leeds Parrott. We are most grateful for the gift, especially since this portrait shows Morris Leeds, devoted Manager and benefactor of the College, in a more sympathetic mien than that of the painting in the Common Room.

Otherwise the activities of the year have followed their normal course, of which the statistics appended to this Report give a bloodless but suggestive summary. Most of the activities suggested in these figures in the appendix have been capably carried on by Mae E. Craig, Assistant Curator, and Bessie Orr Haakinson, supervisor of the Treasure Room; but the whole staff of the Library, from the Librarian and Assistant Librarians at the top, to the student "shelver" at the bottom, have done their part to keep the services of the Treasure Room at a high level.

Among the eight exhibitions which we prepared during the year, including displays of books, manuscripts and pictures from our large collections on George Fox, William Penn, John Woolman, and John

Greenleaf Whittier, two especially brought a large number of visitors to the Library. Miss Caroline Newton's unique collection of first editions and letters of Thomas Mann served to grace the Thomas Mann Festival in the fall. An exhibition from our own collection on "The Art of William Blake" provided a colorful background for the lecture on Blake which Dr. Jacob Bronowski, Philips Visitor from England, gave in the Treasure Room on May third.

The work of re-cataloguing our rarities, both in the William H. Jenks Collection and on the general Quaker shelves, generously supported by the Trustees of the Thomas H. and Mary Williams Shoemaker Fund, has continued, under the supervision of Mae E. Craig, and the active participation of C. Hilary Ferrand. Miss Ferrand, this year's holder of the Fellowship in Library Science from England, has likewise privately prepared, from the Quaker Collection, in fulfillment of the second part of her Diploma in Librarianship at University College, London, a bibliography of the Quaker writings of Henry J. Cadbury. Dr. Cadbury is the most prolific living Quaker historian, and this bibliography, a copy of which is deposited at Haverford, runs to some thirty pages.

The 1959-60 T. Wistar Brown Graduate Fellowship for research in Quaker life and history has been held by Karl Eric Brolin. A member of the Yearly Meeting in Sweden, a student at the University of Uppsala, and a specialist in child psychology and the psychology of delinquents, Karl Brolin has devoted his primary attention to preparing under the direction of the Curator an essay which it is hoped will eventually be published in Sweden: "Quaker Belief and Its Influence on the Upbringing and Education of Children."

Special and unusual gifts will be noted below, but I cannot close without expressing my appreciation to the many Friends of the College, most of them unnamed, who have remembered the Quaker Collection and the Charles Roberts Autograph Collection when disposing of their old books and family papers, and to the officers, Managers, and maintenance staff of the College, for their continued interest in the growth and preservation of the rarities entrusted to Haverford's care.

As we look forward to next year, we anticipate that the primary problem upon which we shall have to concentrate is that of improving

the services of the Quaker Collection and the Library, by long-range planning to provide adequate space and proper housing for our growing collections of Quakeriana, American Friends Service Committee Archives, the Rufus M. Jones Collection on Mysticism, the Charles Roberts Autograph Collection and the William Pyle Philips Collection of rare books and manuscripts.

GIFTS AND ACQUISITIONS

The following gifts deserve special notice:

For the Quaker Collection:

From Seymour Adelman, Philadelphia, six late eighteenth-century and early nineteenth-century manuscripts relating to Quaker-Indian relations and other subjects.

From Robert M. Agard, Librarian, Earlham College, a *Historical Sketch of West Richmond Friends Meeting, 1909-1959*.

From Mrs. Edward Page Allinson, West Chester, books and manuscripts, including a letter from William Lloyd Garrison to Thomas Shipley.

From Mrs. B. Franklin Blair, Havertown, letters, tracts, and petitions from 1899 and 1900 concerning Indian affairs.

From Edwin B. Bronner, M.A., '47, Cheltenham, a bound volume of the papers of the conference of the Friends World Committee for Consultation, held at Bad Pyrmont, Germany, September 1958, edited by Dr. Bronner under the title *Sharing our Quaker Faith*.

From Anna Pettit Broomell, Germantown, Quaker books and pamphlets including six tiny volumes of Jane Johnson's *Treasury of Facts* (Philadelphia, 1860).

From Professor Henry J. Cadbury, contemporary Quaker pamphlets, maps and a dissertation in German on the use of the second person singular in American English.

From Warder H. Cadbury, New Haven, Connecticut, a five-cent Quaker novel of 1904, *Young Broadbrim on a False Clew; or the*

Mystery of the Gray House. This is number 67 in the Young Broadbrim Weekly Series, and the only one at Haverford.

From Francis R. Cope, '00, Dimock, Pennsylvania, and Harold Evans, '07, Germantown, additional papers for the Hartshorne Collection, including three letters from John Greenleaf Whittier.

From Dr. and Mrs. Ernest J. Dewees, Newtown Square, a minute book of Red Cedar, Iowa, Monthly Meeting (Conservative), 1854-1859.

From Edward W. Evans, '02, a volume of six rare Quaker tracts.

From Richard Mott Gummere, '02, a book of Hymns for young people (London, 1822), which was a presentation copy from Anna Braithwaite, the English Quaker minister of evangelical leanings, to Robert F. Mott.

From Earl G. Harrison, Jr., '54, a Yale Divinity School manuscript essay on "Quakerism and the Ecumenical Movement."

From Paul S. Lippincott, Marlton, New Jersey, a 1726 *Epistle* of the Yearly Meeting held at Burlington.

From John N. Pearce, a University of Delaware-Winterthur Museum M. A. thesis, "The Early Baltimore Potters and Their Wares, 1763-1850." Several of these early potters were Friends.

From Mrs. Josiah Penniman, Haverford, through William L. Hires, '49, several early Epistles of Philadelphia and London Yearly Meetings.

From Daniel Smiley, '30, Mohonk Lake, New York, clipping relating to Quaker meetings in the Mohonk Lake area.

From Professor Douglas V. Steere, fourteen mimeographed extracts from his letters to the American Friends Service Committee written during his European journey of 1947-48.

From Mary Albertson Thom and Edith Albertson Greene, Quaker volumes from the Henry H. Albertson Collection, including two rare pamphlets on "Irish Ranterism" of 1843.

From Betty Bettie Vila, Miami, Florida, an 1884 letter of Joseph Bevan Braithwaite, English minister, while on a religious visit to North America.

From William Webb, '13, Windermere, Florida, photographs, clippings and pamphlets of the Haverford Unit in France in World War 1.

From Frederick Wulsin, Cambridge, Massachusetts, and Margaret Taylor MacIntosh, additional manuscripts for the Allinson Collection.

For the Charles Robert Autograph Collection:

From President Borton, letters of Justice William O. Douglas, Walter Piston, Jacques Barzun, Justice Felix Frankfurter, Pearl Buck, Senator John F. Kennedy, and others.

From Anna Pettit Broomell, Germantown, photographs of Charles Roberts and his mother, Anne Roberts.

From Keith W. Bradley, '60, a letter from Somerset Maugham, dated St. Jean, Cap Ferrat, 23 March, 1960.

From H. Tatnall Brown, Jr., '23, letters of business executives, including those of Henry Ford, II, J. M. Symes of the Pennsylvania Railroad, Charles E. Wilson of General Motors, and others.

From Mrs. Thomas E. Drake, Bryn Mawr, letters of contemporary political figures such as Madam Pandit, Sherman Adams, Dean Acheson, John Foster Dulles, Eleanor Roosevelt, Warren Austin, and Sir Oliver Franks.

From Professor John A. Lester, Jr., letters of C. P. Snow, English scientist and novelist, and Alec Waugh, writer.

For the Haverfordiana Collection:

From Vice-President Walter C. Baker, a tape recording of a radio panel discussion on the "Crisis in Education" by President Borton, Vice-President MacIntosh, and Professors Lemonick and Parker.

From William C. Coles, Jr., a photostat of the 1840 prospectus of the "Haverford School."

From the estate of Julia Cope Collins, Haverford, a photograph of the old library, and a drawing by John Collins of New Garden, North Carolina, Meeting House, 1869.

From Margaret Conklin, Philadelphia, the manuscript music for "March '95," for banjo and banjeaurine, composed by Frank Henry Conklin, '95.

From Professor John L. Heller, '27, Chairman of the Department of Classics, University of Illinois, a text-book edition of Moliere's *Le Misanthrope*, which John Heller used in French 2 in 1923-24 and which Peter Hurd, '26, borrowed and embellished with pencil drawings of the Misanthrope, pirates, and other romantic figures.

From Seth W. Mattingly, Detroit, a Maxfield Parrish Calendar for 1960.

From William Webb, '13, Windermere, Florida, a photograph album of the 1914 English tour of the cricket team.

THOMAS E. DRAKE

STATISTICS FOR THE REPORT OF THE CURATOR OF THE QUAKER COLLECTION

1959-1960

Visitors to the Treasure Room	1,127
Visiting Research workers	22
Reference questions answered	75
Manuscripts received by gift	10
Photographs received by gift	15
Books and pamphlets received by gift	110
Books and pamphlets purchased	175
Books and pamphlets catalogued	171
Catalogue cards prepared	550
Exhibits prepared	8
Professors using rare books and manuscripts in class	19
Students using rare books in the Treasure Room	18
Meetings and classes held in the Treasure Room	9
Lectures to Friends' forums by the Curator	2

REPORT OF THE MORRIS INFIRMARY—1959-1060

House Patients

Upper Respiratory Infections	19
Gastro Intestinal Infections	10
Miscellaneous	6
Communicable—Measles	10
Chicken pox	1

Total	46

Dispensary Visits

Upper Respiratory Infections	1,056
Gastro Intestinal Infections	160
Miscellaneous	1,597
Vaccines	128
Allergy	175

Total	3,116
Influenza Vaccines given	231

Total	3,347

Injuries:

Fractures	4
Orthopedic	1
Suture cases	12
Dislocations:	
Knee	1
Shoulders	1

WILLIAM W. LANDER, M.D.

PUBLICATION OF THE ACTIVITIES OF THE FACULTY

1959-60

ASENSIO, MANUEL, J.

Hispanic Review:

Articles: "Mas sobre el *Lazarillo*."

Lectures: "The Land and the People of Spain," Agnes Irwin School (Nov. 11, 1959); "The Persistence of the Past in Present-Day Spain," Library Associates of Haverford College (December 13, 1959); "Por Tierras de España," Beaver College (December 16, 1959); "La novela picaresca," University of Pennsylvania (March 31, 1960).

ASHMEAD, JOHN, JR.

Article: "'Some in Chatham England,' or, A Grammar for the Humanities," *The College English Association Critic*, 21 (October, 1959), 5-6.

Reviews: Horst Frenz, ed., *Asia and the Humanities*, *Journal of Asian Studies*, 21 (May 1960), 320-321.

Lectures: "The Greek Revival in American Art and Literature," Haverford College, May 12, 1960; "The Ways of the Wandering Scholar," Westtown Alumni, Jan. 29, 1960, Westtown School, Pennsylvania; "The New International Teacher as a Force for World Peace," Toronto Society of Friends, Feb. 26, 1960, Toronto, Canada; "Conditions in Japan," World in Perspective program, radio station WIP, Philadelphia, Sept. 7, 1959; "Student Life in Japan," Frank Ford program, radio station, WPEN, Philadelphia, Sept. 8, 1959; "Student Life in Japan," Ralph Collyer program, radio station WCAU, Sept. 9, 1959, Philadelphia.

Board of Directors, Main Line School Night Association.

American Council of Learned Societies grant for research on Hearn, summer 1960, in Japan.

Fulbright award, lecturer in American Studies, National Chengchi University, Taipei, Taiwan, 1960-61.

Haverford College Representative, School and College Conference on English.

BENHAM, THOMAS A.

Chairman of the Board, Philadelphia Association for the Blind.

Principal Investigator, Research of Travel Aids for the Blind.

Senior Member, Institute of Radio Engineers.

Vice-Chairman, Professional Group on Audio, Institute of Radio Engineers.

Member, Committee for Research on Problems Associated with Blindness, Inc.

Member, Investigations in Measurements in Space in cooperation with the National Aeronautics and Space Administration.

BORTON, HUGH

Articles: "The Meaning of Japan's Political Crisis," *Friends Journal*, July 9, 1960; "Asian Studies and the American Colleges," *Americana*, May, 1960, No. 5, Vol. 5, pp. 41-49.

Reviews: Beardsley, Hall and Ward, *Village Japan*, *New York Herald Tribune*, Aug. 1959.

Lectures: "Present Status of the College," Upper New York State Haverford Alumni Biennial Meeting, Clinton, N. Y., Oct. 16, 1959; "The Future Size of Haverford College," Alumni Council Dinner, Oct. 24, 1959; "What We Need to Know about Post-War Japan," Home and School Association, Friends School, Wilmington, Del., Oct. 28, 1959; "The College Today," Haverford Alumni Dinner, Chicago, Jan. 14, 1960; "Two Views of Japan," Holmesburg Prison Self-Improvement Association, Jan. 23, 1960; "The Two Cultures and Man's Moral Responsibilities," Founder's Day and Mid-year Commencement, Temple University, Philadelphia, Feb. 11, 1960; "Scholars and Scholarship: Asia and the West," Scholarship Dinner, Dickinson College, Carlisle, Pa., Feb. 25, 1960; "The Next Decade at Haverford College," Alumni Day, Haverford, Pa., May 7, 1960; "Widening Horizons," Commencement, Friends' Central School, Overbrook, Pa., June 15, 1960; "Christianity and the Crisis in Japan," Japan International Christian University Trustees Luncheon, New York City, June 22, 1960.

Television: Participant, "College Presidents View the Education Crisis," Conference on Higher Education, WFIL, Philadelphia, Sept. 28, 1959; Moderator of Panel, "Haverford College and the Crisis in Education," Crisis in Education, WCAU, Nov. 15, 1959; Interviewee, "Christianity and the Japanese Crisis," *The Way to Go*, WCBS, New York City, June 16, 1960.

Radio: Interviewee, WIP newcast, May 28, 1960; "Japan's Political Crisis and Future United States-Japanese Relations," interview for syndicated radio program, June 24, 1960.

Vice President, Trustee, Japan Society, Inc.

Board of Directors: American Friends Service Committee, Japan International Christian University Foundation, Lingnan University, Pendle Hill, Penjerdel, World Affairs Council of Philadelphia.

Life Fellow: International Institute of Arts and Letters.

Member: Harvard Visiting Committee on Far Eastern Civilizations.

Honorary Degree: Doctor of Laws, Temple University.

Delegate: Japan-U. S. Treaty Centennial Festival, Tokyo, Japan, May 19-26, 1960.

BUTMAN, ROBERT H.

Lectures: "Drama and Religious Truth," Student Christian Movement, Byrn Mawr; "Shakespeare's Merchant of Venice," The Hathaway Shakespeare Club, Philadelphia; "Lyrical Structures in Shakespeare's Plays," The Hathaway Shakespeare Club, Philadelphia; "Great Books of the Western World," a series of eight lectures, The Washington Seminar, Washington, D. C.

Directed a production of "The Merchant of Venice" at Lincoln University, Oxford, Pa.

Member of the Board of Directors, The Hedgerow Theatre, Moylan, Pa.

Artistic Director of the proposed Philadelphia Shakespeare Festival, Philadelphia, Pa.

CADBURY, HENRY J.

Books: *Parts in Books*: "The New Testament and Early Christian Literature" (in Chinese, translated by P. C. C. Lu) in *The New Testament Articles in the Interpreters Bible*, VII. 1951, translated into Chinese, Hong Kong, 1959, pp. 79-110.

"Soluble Difficulties in the Parables" in *New Testament Sidelights, Essays in Honor of Alexander C. Purdy*, Hartford Seminary Foundation Press, Hartford, Conn., 1960, pp. 118-123.

Tribute to H. G. Wood in *Jesus in the Twentieth Century*, by H. G. Wood, London, Letterworth Press, 1960, p. 9.

Introduction to *Ballou Cadbury, A Memoir*, by Percy W. Bartlett, London, Barnisdale Press, 1960, pp. 11-12.

"A Quaker Approach to the Bible" in *Through a Quaker Archway*, edited by Horace Mather Lippincott, New York, Thomas Yoseloff, 1959, pp. 215-228.

Articles: "Early Use of the Word 'Quaker,'" *Journal of Friends Historical Society*, 49, 1959 pp. 3-5.

"The Early Quaker View of the Church," comment in *Quaker Religious Thought*, II. No. 1, Spring 1960, pp. 20-23.

"Soluble Difficulties in the Parables" (as above), *Friends Quarterly* 13, 1959, pp. 151-156.

"Vom Wesen des Quäkers" (translated into German), *Der Quäker*, 24, 1960, pp. 3-8.

"Intimations of Immortality in the Thought of Jesus" (Ingersoll Lecture for 1959), *Harvard Theological Review*, 53, 1960, pp. 1-26.

"New Testament Scholarship: Fifty Years in Retrospect," *The Journal of Bible and Religion*, 28, 1960, pp. 194-198.

Book Reviews: John Sykes, *The Quakers*, *Saturday Review*, March 5, 1960, pp. 41-42. *The Acts of the Apostles*, by Charles W. Carter and Ralph Earle, Asbury Seminarian, XIV. No. 2, 1960, pp. 57-58.

Editorial Work: "Briefer Notices" and "Research in Progress," departments, *Bulletin of Friends Historical Association*.

"Letters from the Past," occasional column in *Friends Journal*.

Articles Edited: "A Quaker from Ireland in America 1734-1735," *Proceedings of the American Philosophical Society*, 69, 1959, pp. 112-118.

"Questions to a Conscientious Objector and Answers," 1679, *Fellowship*, Vol. 26, No. 9, May 1, 1960, pp. 29-31.

"A Quaker Before the Privy Council, 1663." *Bulletin of Friends Historical Association*, 49, 1960, pp. 36-42.

Lectures or addresses: Augusta, Ga. (2); Orlando, Fla. (2); Lake Worth, Fla.; St. Petersburg, Fla. (2); Jacksonville, Fla.; Columbia, S. C.; Durham, N. C. (Phi

Beta Kappa Address at Duke University); Richmond, Va. (J. Hoge Ricks Memorial Lecture for 1960); Pittsburgh, Pa. (2) (Lake Erie Association of Friends); Allentown, Pa. (Lehigh Valley Friends Meeting); Cambridge, Mass. (Friends Meeting (3) and (Ministry to Students); Lowell, Mass. (University of Life); Providence, R. I. (Friends Schools); Sellersville, Pa. (School Affiliation Conference); Greenwich, N. J.; Sandy Spring, Md. (Friends Quarterly Meeting); Swarthmore Friends Meeting, Swarthmore, Pa.; Central Philadelphia Meeting; Plymouth Meeting, Pa. (Friends of the Library); New York City (Centennial of Friends Twentieth Street Meeting House); Abington Friends Meeting, Jenkintown, Pa.; St. George's Church, Ardmore, Pa.; Haverford Friends Meeting, Pa. (3); Germantown (Pa.) Friends Meeting (four Bible Classes); Friends General Conference, Cape May, N. J. (four Bible Classes); Wilmington, Del. (Friends School Commencement); Princeton, N. J. (Theological Seminary).

Chairman, Board of Directors, Byrn Mawr College.

Chairman (after Jan. 1, 1960, Honorary Chairman), of the American Friends Service Committee.

Director, Friends Historical Association.

Member, Revised Standard Bible Committee.

Lecturer, Pendle Hill (two terms).

Visiting Lecturer (one month), Swarthmore College.

Clerk, Philadelphia Yearly Meeting on Worship and Ministry (after March 24, 1960).

CADBURY, WILLIAM E., JR.

Lectures: "Some Thoughts on Preprofessional Education," Faculty Conference on Premedical Education, University of Washington, Seattle, Wash., Sept. 18, 1959; Resource Person, "Faculty-Administration Relationships," American Council on Education, Washington, D. C., Oct. 8 and 9, 1959; Panelist, "Cooperation among Area Colleges," Pennsylvania Association of Deans, Pittsburgh, Pa., Oct. 12, 1959; "Trends in Premedical Education," Chemistry Club, Lincoln University, Pa., Oct. 29, 1959; Member, Panel for Evaluation of Applicants for Science Faculty Fellowships, National Science Foundation, Washington, D. C., Nov. 12-15, 1959; Speaker, Forum IX, "Beliefs—Surveying What We Do," White House Conference on Children and Youth, Washington, D. C., March 29, 1960; Participant, Law School Admissions Seminar, French Lick, Ind., April 8 and 9, 1960; Faculty Leader, Danforth Campus Community Workshop, Colorado Springs, Colo., June 18—July 9, 1960.

Treasurer, American Conference of Academic Deans (term expired, Jan., 1960).

Member, Committee in Charge of Westtown School.

CARY, JOHN R.

Reviews: Karl Barth and Johannes Hamel, "How to Serve God in a Marxist Land," *Friends Journal*, 6, 3 (January 16, 1960), 40.

Emil Fuchs, "Mein Leben," vol. II, *Friends Journal*, 6, 4 (January 23, 1960), 57.

Dietmar Schmidt, "Pastor Niemoller," *Friends Journal*, 6, 12 (March 19, 1960), 178.

Member, Board of Managers, Pendle Hill.

Chairman, Publications Committee, Pendle Hill.

Member, Committee of Overseers, William Penn Charter School.

Member, Committee of Overseers, Haverford Monthly Meeting.

COMFORT, HOWARD

Articles: "Praefatio Praesidis de Congressu altero," *Rei Cretariae Romanae Fantorum Acta II* (1959) I-II.

"Sigillata from the Ships at Lake Nemi," *ibid.*, 5-12.

"Worship and Ministry: Some Observations" (pamphlet), Philadelphia Yearly Meeting, 1960.

"Roman Ceramic and Glass at Heidelberg and New York," *American Journal of Archaeology*, Vol. 64, pp. 273, plate 75.

"Six Inscriptions Near Rome," *American Journal of Archaeology*, pp. 274-275, plate 76.

Reviews: G. C. Boon, *Roman Silchester*, *Archaeology* 12 (1959) 288.

H. S. Robinson, *The Athenian Agora V. Pottery of the Roman Period: Chronology*, *American Journal of Archaeology*, 64 (1960), 110.

M. A. Mezquiriz de Catalan, *La excavacion estratigráfica de Pompaelo*, *Gnomon*, 1960, 79-80.

Summary of recent American work on Roman ceramics, *Communicationes Rei Cret. Rom. Faut.* 1 (1960), 3-5.

Lectures: "Worship and Ministry," Yardley Meeting, Woodbury Meeting, Bucks Quarterly Meeting, Salem Quarterly Meeting; "Quakerism and Education," St. Thomas' P. E. Church, Philadelphia; "Six Roman Inscriptions," The Baldwin School, Lawrenceville School; "Roman Ceramics," Haverford College; "Roman Ceramics, A Chapter in Classical Archaeology," Foreign Language Conference, Univ. of Kentucky.

Board of Managers, Moore Institute of Art, Philadelphia.

Director, American Philological Association (until Dec. 30, 1959).

Clerk, Philadelphia Yearly Meeting on Worship and Ministry (until Mar. 24, 1960).

President, *Rei Cretariae Romanae Fautores*.

DAVISON, JOHN

Music written for, and performed during three plays at Haverford and Bryn Mawr:

The Caucasian Chalk Circle (Brecht)—Roberts Hall, Nov. 20-21, 1959.

The Merchant of Venice (Shakespeare)—Goodhart Hall, March 11-12, 1960.

The Frogs (Aristophanes)—Skinner Workshop, May 2, 1960.

Some performances of compositions this year:

Concerto for Trombone and Orchestra played January 28, 1960 in Kilbourn Hall, Rochester, New York, by David Fetter with the Eastman-Rochester Orchestra under Howard Hanson. (First performance with orchestra.)

Symphony No. 2 played (on a tape from previous Rochester performance) over station WNYC in New York at 1:00 p.m., February 18, 1960.

Suite for Viola and Piano played at a chamber music concert, Goodhart Music Room, Bryn Mawr College, March 6, 1960. (First performance.)

Short Communion Service for unaccompanied choir sung at St. Paul's Episcopal Church, Chestnut Hill, Philadelphia, at 11:00 a.m., May 15, 1960.

DE GRAAFF, FRANCES

Chairman, Pennsylvania Chapter of the American Association of Teachers of Slavic and East European Languages.

Conferee, one of twenty specialists on Russian language teaching, organized by Office of Education to discuss writing of textbook of Russian, University of Michigan, Ann Arbor, November, 1959.

DESJARDINS, PAUL J. R.

Lectures: "Art as a Possible Medium for Religious Truth," Student Christian Movement, Lecture and Panel, 6 weeks, Oct.-Nov., 1959.

Elected to Central Committee, National Council on Religion in Higher Education, 1960.

Swarthmore Honors Program Examiner.

DRAKE, THOMAS E.

Reviews: E. Kay Kirkham, *A Survey of American Church Records Before the Civil War*. Vol. I, *Major Denominations in American Archivist*, 22 (October, 1959), 453-454.

Arthur O. Roberts, *Through Flaming Sword: a Spiritual Biography of George Fox*, in *Friends Journal*, 6 (January 23, 1960), 56-57.

Lectures: "James and Lucretia Mott," Germantown Friends Meeting (Coulter Street), Friends Forum; "The Role of the Library in Early American Education," Woodstown, N. J., Friends Forum.

Member, Board of Directors, Friends Historical Association.

FINGER, IRVING

Articles: "Agar Diffusion Studies in the Dextran-Antidextran System," *J. Immunology*, 84, 227, 1960 (with E. A. Kabat, A. E. Bezer and A. Kidd).

"Immunological Evidence for Variation of Mitochondria Isolated from Paramecium," *Science*, 130, 1416, 1959 (with P. Kittner and C. Heller).

Lectures: Fall meeting, National Academy of Sciences, Indiana University (abstract in Science).

FLIGHT, JOHN W.

Reviews: Russell P. Shedd, *Man in Community* (A Study of St. Paul's Application of Old Testament and Early Jewish Conceptions of Human Solidarity), *Journal of Bible and Religion*, XXVIII, No. 2, 252-4.

Balmer H. Kelly, Ed., *Introduction to the Bible*: Layman's Bible Commentary, *Journal of Bible and Religion*, XXVIII, No. 3 (July, 1960), 369-70.

Lectures: "Through the Old Testament," Bryn Mawr Presbyterian Church Westminster Fellowship; "The Dead Sea Scrolls and the New Testament," Forum of the First Unitarian Church, Wilmington, Del.; "The Newly-discovered Gospel of Thomas—a Fifth Gospel?" Unitarian Fellowship, York, Pa.

Preaching Engagements: First Unitarian Church, Wilmington, Del.; Unitarian Fellowship, Berwyn, Pa.; Unitarian Fellowship, York, Pa.; Valley Forge Methodist Church; Unitarian Fellowship, Newark, Del.; Unitarian Fellowship, West Chester, Pa.

FOSS, MARTIN

Lectures: "Indian Religion and Philosophy," Christian Student Association, Nov., 1959; Series of nine lectures on the subject of "Religion," Women Fellowship group at Haverford, Nov., 1959-Feb., 1960; "European and American University Education," Forum, Montana State University, April; "True Scholarship," Honor Students, Montana State University, May; "Problems of Aesthetics," Philosophical Club, Montana State University, May.

Preaching: Baldwin School, Nov., 1959, Jan., 1960; Bryn Mawr College, Feb. 7.

FREUND, GERALD

Lectures: Panel Member, "Crisis in Education," WCAU-TV, Philadelphia, Nov., 1959; "The United States and Germany: An Example of Institutional Research," Faculty Research Paper, Haverford College, Dec., 1959; "Bonn's Eastern Policy and Disengagement," Washington Center of Foreign Policy Research, Dec., 1959; "Divided Europe: Cooperation or Crisis?" Great Decisions 1960 series, World Affairs Council of Philadelphia, Feb., 1960; "Ethics and Problems of Foreign Policy," Bryn Mawr College, March, 1960; "Foreign Policy and the 1960 Elections," Haverford College Caucus Club, March, 1960.

Research Secretary, Council on Foreign Relations Inc., N. Y., Summer, 1959.

Research Consultant, Washington Center of Foreign Policy Research, 1959-1960.

Rockefeller Foundation grant, 1959-1960.

Member, "Commission to Study the Organization of Peace," New York City.

Delegate, American Academy of Political and Social Science meeting, Philadelphia, April, 1960.

GREEN, LOUIS C.

Lectures: "Satellites, Rockets, and the New Astronomy," Parents' Day, Haverford College, Wyomissing Public Library Association, Wyomissing, Pa., and Haver-

ford Club of Hartford, Hartford, Conn.; "Modern Cosmologies and Some Implications," the Student Christian Movement, Bryn Mawr Presbyterian Church, Bryn Mawr; "The Biography of a Research Project," auspices of the Student Faculty Relations Committee, Haverford College; "The Galaxies and Modern Cosmologies," Astronomy Course at the Franklin Institute, Philadelphia; "Teaching and Student and Faculty Research at the Strawbridge Observatory," the Rittenhouse Astronomical Society, Haverford; "Work at Haverford on Correlation and Configuration Interaction in Atomic Wave Functions," AEC Computing and Applied Mathematics Center, Institute of Mathematical Sciences, New York University.

Presentation of the Rittenhouse Medal to Fred Hoyle, Franklin Institute, Philadelphia.

Presentation of the Boyden Premium to A. S. Aslakson, Franklin Institute, Philadelphia.

Panel member, Science and Engineering, Alumni Council Career Panels, Princeton University, Princeton, N. J.

Member, Committee on Science and the Arts, Franklin Institute, Philadelphia.

Member, National Research Council Committee on Line Spectra of the Elements.

Member, Sub-Committee on Intensity Tables, International Astronomical Union.

GUTWIRTH, MARCEL

Reviews: Roger Shattuck, *The Banquet Years*, *The French Review*, Jan., 1960.

Lectures: "Recent Trends in Contemporary French Literature," The Council for International Visitors, Philadelphia.

HARPER, EDWARD B.

Articles: "Two Systems of Economic Exchange in Village India," *American Anthropologist*, 61:5: 760-778 (October, 1959).

"A Hindu Village Pantheon" *Southwestern Journal of Anthropology*, 15:3: 227-35 (Autumn 1959).

HEATH, DOUGLAS

Articles: The Phrase Association Test: A Research Measure of Anxiety Thresholds and Defense Type. *Journal of General Psychology*, 1960, 62, 165-176.

Editorial Work: Research Consultant to Academy of Religion and Mental Health. Swarthmore College, Psychology Honors Examiner.

HETZEL, THEODORE B.

Articles: "Field Studies for the Indian Rights Association," *Indian Truth*, vol. 36, no. 3, p. 1-7.

Lectures: Talks on Current American Indian problems: WCAU Philadelphia Spotlight; WFLN Town Talks; WPEN Frank Ford Show; Woolman Hill, Deerfield,

Mass.; Valley Friends Meeting; Chestnut Hill Friends Meeting; New Century Club, Philadelphia; St. Martins in the Fields, Chestnut Hill; Merion Friends Meeting; Pendle Hill; Indian Rights Association (annual meeting); Haverford First Day School; Young Friends Yearly Meeting, Philadelphia; First Baptist Church, Philadelphia; Diocesan Conference Center, Radnor; Glenside Methodist Church; Friends General Conference, Cape May.

Chairman, Indian Program Committee, American Friends Service Committee.

Member of Board: Indian Rights Association; Council on Indian Affairs; American Indian Summer Workshop; The Emlen Foundation; American Section Executive Committee, AFSC; Community Relations Executive Committee, AFSC.

HORN, ROBERT L.

Lectures: "Basic Problems in Christian Ethics," Bell Program in Humanities for Executives, University of Pennsylvania, Jan. 14, 1960; "Biblical and Christian Ethics," Haverford-Bryn Mawr Student Christian Movement, April 17, 1960; "Biblical Theology and a Scientific World-View," Annual meeting of Commission on Biblical Theology of the Disciples of Christ, Clifty Falls, Indiana, April 23, 1960; "What is Religion" Moderator of panel discussion, Bryn Mawr College Interfaith, Nov. 9, 1959.

Sermons: Earlham College Meeting for Worship, May 29, 1960.

Member, Commission on Biblical Theology, Disciples of Christ.

Member, Association of Disciples for Theological Discussion.

Member, Main Line Ecumenical Campus Committee.

Member, Philadelphia Area Committee for selection of candidates for Rockefeller Theological Fellowships.

Member, Executive Committee, Danforth Teaching Fellows.

HUNTER, HOLLAND

Articles: "Costs, Freight Rates, and Location Decisions in the U. S. S. R.," in Gregory Crossman, ed., *Value and Plan: Economic Calculation and Organization in Eastern Europe*, Berkeley: University of California, 1960, pp. 322-337.

"Soviet Transportation Policies—A Current View," in U. S. Congress, Joint Economic Committee, *Comparisons of the United States and Soviet Economies*, Part I, pp. 189-99 and *Hearings*, pp. 89-100, Washington: GPO, 1959.

"On Planning to Catch Up," in Reuben E. Slesinger, ed., *Trends in Economics*, Pittsburgh: University of Pittsburgh, 1960, pp. 1-19.

"Union of Soviet Socialist Republics," *Collier's Encyclopedia Yearbook for 1959*, New York: P. F. Collier & Son, 1960, pp. 646-54.

American Response to Afro-Asian Uproar," *Point Sixty*, April, 1960, pp. 9-10.

Reviews: Benjamin Higgins, *Economic Development: Principles, Problems and Policies*, *American Economic Review*, Dec., 1959, pp. 1071-74.

Henry H. Villard, *Economic Development*, *American Economic Review*, Dec., 1959, pp. 1074-75.

Alec Nove, *Communist Economic Strategy: Soviet Growth and Capabilities*, *Annals of the American Academy*, May, 1960, p. 156.

Lectures: "What Should We do About Khrushchev?," Media Rotary Club, Media; "The Problem of N. S. Khrushchev," Delaware County Real Estate Board, Havertown; "Soviet Economic History and Its Significance," Dartmouth College; "The Challenge of Communism," Westtown School, Westtown, Pa.; "The Soviet Record," Swarthmore College Honors Seminar; "The Soviet Challenge to the U. S. in Underdeveloped Areas," League of Women Voters, Haverford, Pa.; "Resources, Transportation, and Economic Growth," SSRC Conference on Natural Resources and Economic Growth, Ann Arbor, Mich.; "The Soviet Organization Man," The Right Angle Club, Philadelphia; "Lessons of Soviet Transportation for Underdeveloped Areas," Penn State University, College Park, Pa.

Chairman, Annual Giving Committee, Haverford Friends School.

Member of: Executive Committee, Association for the Study of Soviet-type Economics; AFSC Committees: International Conferences and Seminars, Advisory Committee on International Issues, U. S. Projects; Executive Committee, Friends School PTA; Studies Committee, Main Line "School Night" Association.

KENNEDY, GEORGE

Articles: "Isocrates' *Encomium of Helen*: a Panhellenic Document," *Transactions of the American Philological Association*, vol. lxxxix, pp. 77-83.

Reviews: Review of C. A. Robinson, *Athens in the Age of Pericles*, *Classical World* 53 (1960), 113.

Lectures: "Isocrates' Adventures in Oratory," Philadelphia Classical Club; "Focusing of Argument in Greek Deliberative Oratory," Annual Convention of the American Philological Association, New York City; "Moral Responsibility in the Attic Orators," Annual Convention of the Speech Association of America, Washington, D. C.

Member, Managing Committee, American School of Classical Studies in Athens.

LEMONICK, AARON

Panel Member: "Crisis in Education," November 1959, WCAU-TV.

Conferee, Physics Course Improvement Conference, American Association of Physics Teachers.

Campus Representative, Woodrow Wilson National Fellowship Foundation.

Regional Selection Committee, Woodrow Wilson National Fellowship Foundation.

LESTER, JOHN A., JR.

Articles: "The Library's Role in a Liberal Education," *Library Journal*, LXXXV (February 1, 1960), 491-494.

Lectures: "Academic Honors and a Liberal Education," Honors Day Address, Gettysburg College, May 10, 1960.

Consultant, English Department, St. Andrew's School, Middletown, Del.

Evaluator, Middle States Association of Colleges and Secondary Schools.

Member, Board of Directors, Association of College and Reference Libraries, Philadelphia Chapter.

Member, Board of Directors, Union Library Catalogue.

Chairman, Region IV, Woodrow Wilson National Fellowship Foundation.

LOCKWOOD, DEAN P.

Articles: "Student Humor in Cartoons," *Haverford Horizons*, vol. 1, no. 3 (Jan. 13-15, 1960).

Editorial Work:

Editor, Bulletin, Library Associates of Haverford College.

Member, Editorial Board for Mediaeval and Renaissance Latin Translation and Commentaries.

Member, Advisory Council, Renaissance Society of America.

LOEWY, ARIEL G.

Editorial Work: Biology Editor for Holt, Rinehart and Winston Publishing Co.

Lectures: Lecture to Biology Department Colloquium, Harvard University on "Mechanism of Insoluble Fibrin Formation"; Participant in Bryn Mawr College Forum on "Science and Religion"; Participant in Arts Council Forum on "Science and Art"; Lecture to Student Christian Movement on "Evolution."

Referee for National Science Foundation on American Institute of Biological Sciences program to develop new high school curriculum in Biology.

MACCAFFREY, WALLACE T.

Reviews: W. H. Hoskins, *English Local History*, *American Historical Review*, June, 1960.

R. W. K. Hinton, *The Eastland Trade and the Common Weal in the Seventeenth Century*, *Journal of Economic History*, Sept. 1959.

Lectures: "The Social Status of the Elizabethan Urban Merchant," American Historical Association meetings, Chicago, Dec. 1959; "Opportunities for the Cultural Historian in English Local Archives" Folger Library Conference on 16th Century Cultural History, April 24, 1960, Washington, D. C.

MACINTOSH, ARCHIBALD

Panel Member: "Crisis in Education," November, 1959, WCAU-TV.

Board of Overseers, the William Penn Charter School.

Trustee, The College Entrance Examination Board.

MACKAY, COLIN F.

Lectures: "The Reaction of Atomic Carbon with Oxygen: Significance for the Natural Radiocarbon Cycle," at Atlantic City meeting of American Chemical Society and at Bryn Mawr Chemistry Colloquium.

OAKLEY, CLETUS

Books: Revision of *The Calculus*, New York: Barnes and Noble, 1959.

Reviews: F. J. Camm, *Mathematical Tables and Formulae* (6th Ed.), *Amer. Math. Monthly*, 66, No. 7 (Aug.-Sept., 1959), 604.

Chemical Rubber Publishing Co. CRC Standard Mathematical Tables (11th Ed.), *Amer. Math. Monthly*, 66, No. 7 (Aug.-Sept., 1959), 604.

E. S. Cogan and R. Z. Norman, *Handbook of Calculus, Difference and Differential Equations*, *Amer. Math. Monthly*, 66, No. 7 (Aug.-Sept., 1959), 604.

P. H. Daus and W. M. Whyburn, *Introduction to Mathematical Analysis with Applications to Problems of Economics*, *Amer. Math. Monthly*, 67, No. 2 (Feb., 1960), 1960.

Editorial Work: *American Mathematical Monthly*.

Lectures: "The Changing High School Curriculum in Mathematics," The George School, Newtown, Pa.; "Impact in the College Due to Changes in the School Curriculum," The Pennsylvania Council of Teachers of Mathematics, East Stroudsburg, Pa.; "Opportunities for Mathematical Research," Temple University, Philadelphia, Pa.; "Application of Abstract Algebra in the Sciences," Temple University, Philadelphia, Pa.

Mathematical Visitor to:

Abington High School.

The Taft School.

Muhlenberg College.

Member, College Entrance Examination Board.

National Science Foundation Lecturer to High School Teachers and Students, Delaware and Maryland, one week.

Consultant to National Science Foundation on Summer Institutes.

Mathematical Consultant to School Mathematics Study Group.

PARKER, FRANCIS H.

Articles: "Mind, Matter, and Fact," *The Review of Metaphysics*, vol. XIII, No. 3 (March 1960), pp. 509-520.

"A Realistic Appraisal of Knowledge," in *The Philosophy of Knowledge*, edited by Roland Houde and Joseph P. Mullally, Philadelphia: J. B. Lippincott Co., pp. 18-48.

"On the Being of Falsity," in *The Philosophy of Knowledge*, edited by Roland Houde and Joseph P. Mullally, Philadelphia: J. B. Lippincott Co., 1960, pp. 209-316.

Lectures: Panel Member: "Crisis in Education," November 1959, WCAU-TV; "A Neglected Problem in Realist Ontologies of Falsity," The Association for Realistic Philosophy, The University of Connecticut; "Conscience and Compromise," West Chester Unitarian Fellowship, West Chester, Pa.; "Ethical Language," Haverford-Bryn Mawr Student Christian Movement, Bryn Mawr, Pa.; "Why Should We Obey Rules?" and "Individual Conscience and Public Law," Philadelphia High School for Girls; "Modern Man in Search of Meaning," a

course in the Liberal Studies Program of the Main Line School Night, Radnor Senior High School, Radnor, Pa.; "The Philosophy of Ethics," a course given at the Institute of Humanistic Studies for Executives, The University of Pennsylvania; "Ethics," a course given in the Humanities Program of the Adult School for Chester County, West Chester High School, West Chester, Pa.; "Problems and Theories in Ethics," a course given at the Germantown Friends Adult School, Germantown, Pa.

President, The Association for Realistic Philosophy.

Secretary-Treasurer, The Metaphysical Society of America.

PFUND, HARRY W.

Articles: "Marbach's Schiller Museum—a National Institution," *American-German Review*, XXVI, No. 1 (October-November, 1959), 4-7.

Reviews: Paul A. W. Wallace, *Thirty Thousand Miles with John Heckewelder*, *American-German Review*, XXVI, No. 1 (Oct.-Nov., 1959), 37.

Johannes Urzidil, *Das Glück der Gegenwart-Gothes Amerikabild*, *American-German Review*, XXVI, No. 4 (April-May, 1960), 39.

Editorial Work: Associate Editor, *American-German Review*.

Lectures: "Schiller After Two Hundred Years," Ardmore Rotary Club; "Der Aufgabenkreis der Deutschen Gesellschaft," Station WCAM, Camden, New Jersey; "The Early Germans of Philadelphia and the German Society," The Colonial Philadelphia Historical Society.

Member, Board of Overseers, Erstes Deutsches Reichswaisenhaus, Lahr, Black Forest, Germany.

President, Carl Schurz Memorial Foundation.

Vice President and Chairman, Library Committee, German Society of Pennsylvania.

POST, L. ARNOLD

Articles: "Menander" in *Collier's Encyclopedia*.

Reviews: Menander, *Dyscolus*, edited by Victor Martin, *American Journal of Philology*, 80 (October, 1959), 402-415.

The Fragments of Attic Comedy, edited by J. M. Edmonds, vol. 2, *The Phoenix* 14 (Spring, 1960), 56 f.

Editorial Work:

Editor: Loeb Classical Library.

Livy XIV.

Lucian VI.

Aelian III.

Lectures: Dramatic readings of Menander, *Dyscolus*, as translated by L. A. Post, before the Philadelphia Classical Society, Swarthmore College Classics Club, and English Honorary Society of the University of Pennsylvania. Tape recordings of the Swarthmore reading distributed by Taben Recordings, Box 24, Ardmore, Pa.

REESE, WILLIAM H.

Conductor: Third Annual Choral Workshop in Berchtesgaden, Germany, January 25-29, 1960, under auspices of the United Lutheran World Federation and U. S. Army Chaplains.

Paper: "Contrafacta in the Lutheran Chorale," read before the Philadelphia Chapter, American Musicological Society, November, 1959.

REID, IRA DEA.

Lectures: Baccalaureate Address, Trenton State College, Trenton, N. J.; Commencement Address, Tuskegee Institute, Tuskegee, Ala.; Stuckenberg Lecturer, Gettysburg College, Gettysburg, Pa.; Samuel Lunenfeld F'd'n Lecturer, Canadian Conference of Social Work, Halifax, Nova Scotia; Forum Address, White House Conference on Children and Youth, Washington, D. C.

Member, The Governor's Committee on Education, Pennsylvania.

The Philadelphia Commission on Higher Education.

The National Scholarship Committee, International Ladies' Garment Workers' Union.

The Program Committee, The Hazen Foundation.

The Board of Trustees, The National Child Labor Committee.

The White House Conference on Children and Youth, Pennsylvania Committee.

The Technical Committee, American Nurses' Foundation, New York.

ROSE, EDGAR SMITH

"The Place of the Humanities," Commencement Address, Lancaster Country Day School, Lancaster, Pa., June 14, 1960.

SACKS, MILTON I.

Books: Chapter entitled "Marxism in Viet Nam" (pp. 102-170) and Notes (pp. 315-329), in Frank N. Trager ed., *Marxism in Southeast Asia—A Study of Four Countries*, Stanford, California: Stanford University Press, 1959, 381 pp.
Completed Ph.D. Thesis—*Nationalism and Communism in Viet Nam, 1918-1946*. Yale University, New Haven, Conn., June, 1960, 288 pp.

Scholarly Papers: "Trade Unionism in Viet Nam" presented at Conference on *Social Development and Welfare in The Republic of Viet Nam*, Oct. 23-24, 1959. Sponsored by the American Friends of Viet Nam.

"Non-Democratic Party Developments in South and Southeast Asia," presented at the Association for Asian Studies Meeting, April 12, 1960, New York.

Lectures: "American Policy Toward India, Red China and Southeast Asia: The Great Challenge," Women's Discussion Group, World Affairs Council of Philadelphia. Dec. 9, 1959; "What Chances for India's Middle Way," *Great Decisions: 1960 Program of the World Affairs Council of Philadelphia*. March 2, 1960. Philadelphia High School for Girls; "What Chances for India's Middle Way," *Great Decisions: 1960 Program of the World Affairs Council of Philadelphia*. March 14, 1960. Lower Merion High School Series.

SANTER, MELVIN

Articles: Role of Inorganic Phosphate in Thiosulfate Metabolism by *Thiobacillus thiooparus*. In *Journal of Bacteriology* 79, 313 (1960).

Lecture: Department of Biochemistry, Duke University.

SARGENT, RALPH M.

Books: *As You Like It* (ed.), Pelican Shakespeare, Baltimore: Penquin Books, 1959, 126 pp.

Lectures: "Variation in the Flora of the Blue Ridge," Highlands Biological Station, Highlands, N. C., Aug. 27, 1959; "On the Flora of the Upper Mississippi Valley," Academy of Natural Sciences, Philadelphia, Pa., Nov. 19, 1959.

Board of Visitors, Union College, Schenectady, N. Y.

Trustee, Highlands Biological Station, Highlands, N. C.

Vice President, Philadelphia Botanical Club.

SELOVE, FAY AJZENBERG

Books: *Nuclear Spectroscopy*, Volumes A and B, Academic Press, Publishers, New York, 1960.

Articles: "Neutron from the Proton Bombardment of Li^6 and Li^7 " (with C. F. Osgood and C. P. Baker), *Phys. Review* 116, 1521-1525 (1959).

"The Sciences and the Humanities," *Haverford Horizons*, 5-7 (April, 1959).

Editorial Work: Member, Editorial Board, "Nuclear News."

Lectures: "The Light Isobars," University of Pennsylvania, Oct. 21, 1959; "The Light Isobars," Bryn Mawr College, Oct. 26, 1959; "Neutrons from the Proton Bombardment of Li^6 and Li^7 " Pasadena meetings of the American Physical Society, Dec. 28, 1959; "Masses of Ne^{18} and Si^{26} " New York meetings of the American Physical Society, Jan. 28, 1960; "Neutrons from the Alpha Bombardment of Be^9 " Washington meetings of the American Physical Society, April 25, 1960; "Neutron Spectra Measurements— Si^{26} and C^{12} " Naval Research Laboratory, April 15, 1960; "The Sciences and the Humanities," Board of Managers' Dinner, Haverford College, Jan. 22, 1960.

Guest Association Physicist, Brookhaven National Laboratory; Ph.D. Thesis Examiner, University of Pennsylvania, Dec., 1959; Chairman, session on nuclear interactions, Washington meetings, American Physical Society, April 25, 1960; Grantee, National Science Foundation.

SOLOMON, LOUIS

Lectures: "The Schur indices of groups with abelian Sylow subgroups," American Mathematical Society, Chicago.

SOMERS, ANNE R.

Articles: "Medical Care Issues in the United States," in *The Social Welfare Forum* 1959, Columbia University Press (1959), 156-172.

"United States Social Security and International Cooperation," *Western World*, Nov. 1959, 42-46.

"Health Insurance: Are Cost and Quality Controls Necessary?" *Industrial and Labor Relations Review* (July 1960).

All the above with H. M. Somers.

Lectures: "Employee Health Insurance and the Costs of Medical Care," University of Michigan, Second Annual Social Security Conference, Ann Arbor, Nov. 18, 1959; "The Problem of the 'Three C's': The Challenge to Voluntary Health Insurance," Inter-Association Committee on Health Annual Meeting, Chicago.

Chairman, "Health Plans in Collective Bargaining: Responsibilities of Labor and Management for Medical Care," Industrial Relation Research Association, Annual Meeting, Washington, D. C., Dec. 28, 1959.

SOMERS, HERMAN M.

Articles: "United States Social Security and International Cooperation," *Western World*, Nov. 1959, 42-46 (with A. R. Somers).

"Medical Care Issues in the United States," in *The Social Welfare Forum 1959*, Columbia University Press (1959), 156-172. (With A. R. Somers.)

"Employee Radiation Hazards and Workmen's Compensation," in *Hearings Before the Subcommittee on Research and Development of the Joint Committee on Atomic Energy*, 86th Congress, 1st Session, 507-518.

Lectures: "Major Issues in the Improvement of Federal-State Unemployment Insurance," Joint Meeting, American Economic Association and Industrial Relations Research Association, Washington, D. C.; "The Problem of Cost and Quality Controls," University of Pennsylvania Medical School, Philadelphia, Pa.; "Doctors, Patients, and Medical Care," Michigan Welfare League, Grand Rapids, Mich.; "The Consumer's Role in Medical Care," Unitarian Church of Germantown, Philadelphia, Pa.

Panel Member, National Conference on Rising Costs of Medical and Hospital Care, Arden House, Harriman.

Moderator, "The Castro Regime: Reform or Betrayal?" World Affairs Council of Philadelphia.

Panel Member, nine weekly shows, "Caucus," WCAU-TV, Philadelphia.

Advisory Committee on Human Needs, The President's Commission on National Goals, Washington, D. C.

Advisory Committee on Study of Presidential Transitions, The Brookings Institution, Washington, D. C.

Planning Committee on Income Maintenance, White House Conference on Aging, Washington, D. C.

Consultant, Special Task Force on Catastrophic Expense Health Insurance. Department of Labor, State of New York.

Research Contract, The Brookings Institution, Washington, D. C.

Political Science Selection Committee, Conference Board of Associated Research Councils, Washington, D. C. (Senior Fulbright Awards).

Consultant, Labor and Industrial Relations Center, Michigan State University, East Lansing.

Executive Board, Industrial Relations Research Association.

Executive Board, Inter-University Case Program, New York City.

Board of Directors, World Affairs Council of Philadelphia.

Visiting Lecturer, Graduate School of Social Work and Social Research, Bryn Mawr College.

Advisory Council, Department of Politics, Princeton University.

STEERE, DOUGLAS V.

Articles: *Travel Letters of Douglas and Dorothy Steere: 1959-60.* (1) Britain, (2) Austria and Switzerland, (3) Germany, (4) Egypt, (5) Israel, (6) India, 79 pp.

Five Essentials of Quaker Faith Today: Mimeographed proceedings of 1959 Quaker Theologians Conference, 17 pp.

Comment of Maurice Crenay's *Quaker Interpretation of Significance of Christ, Quaker Religious Thought*, Vol. 1, No. 2, pp. 22-27.

Anatomy of Worship, Pastoral Psychology, Vol. 11, No. 102, pp. 10-15.

The Order of the Olive and the Dove, Fellowship, Vol. 26, No. 9, pp. 5-6.

Editorial Work: Consultant on Religious Books, Harper and Bros.

Lectures: Mendenhall Memorial Lecture, Wainwright House, Rye, N. Y.: *Spiritual Counsels of Friedrich von Hugel*; 1960 Michigan Diocesan Lectures (3) Cranbrook; Five Lectures on Quakerism at Graduate Ecumenical Institute of World Council of Churches, Chateau Bossey, Celigny, Switzerland; International Secretariat of IFOR, London: *A Program of Research in Case Studies in Non-Violent Resistance*; Diplomat Seminar Group in Vienna, Austria, and Delhi, India: *Unresolved Human Problems in Africa under Rapid Social Change*; International Quaker Center, Geneva, Switzerland (2): *Spiritual Renewal in Our Times*; Some Implications of the 1959 Vienna Youth Festival; Faculty Fellowship, American University in Beirut, Lebanon: *Motivation in Higher Education*; Quaker Lectures in the following cities: Basel; Zurich; Munich; Kassel; Bad Pyrmont; Bückenburg; Colonge Freiburg; Karlsruhe; Darmstadt; Frankfurt-am-Main; Hamburg; Beirut; Brummanah School, Lebanon; Calcutta; Hong Kong; Tokyo (2); Honolulu; San Francisco; Seattle; Haverford Quarterly Meeting; AFSC Staff, Philadelphia; Pendle Hill; New England AFSC, Hartford, Conn.; Beacon Quaker Center, Boston, Mass.; Abington Friends Meeting. National Conference of Religious Publicity Association, Philadelphia, Pa.: *Some Contemporary Experiments in Religious Encounter*.

Conference on Christian Laymen Abroad, Atlantic City, N. J.: *A Radical Approach to Religious Encounter with the Non-Christian Religions*.

University of Pennsylvania: *Religion and Ethics*.

Western College for Women, Oxford, Ohio (2): *An Analysis of Recent Events in South Africa. A Formulation of the Middle Eastern Problem*.

Haverford College Library Associates: *Cairo and Jerusalem, 1959*.

Chestnut Hill Presbyterian Church: *Religious Encounter Today*.

Sermons: YMCA, Jerusalem, Israel; Church of South India, Madura, India; Near East

School of Theology, Beirut, Lebanon; Germantown Unitarian Church; Bryn Mawr College; Indianapolis Friends Meeting; Shadybrook House, Mentor, Ohio; Muncie Indiana Friends Meeting.

Baccalaureate Address: George Washington University, Washington, D. C.

Commencement Address: Whittier College, Whittier, California.

Member, World Council of Churches Commission on Church's Responsibility for Prevention of War.

Chairman, Board of Trustees, Pendle Hill, Wallingford, Pa.

Board of Trustees: Wainwright House, John Woolman Memorial, Embassies of Reconciliation.

Chairman, American Section International Fellowship of Reconciliation.

Mission to Europe, Near East and India, AFSC, July, 1959- Jan., 1960.

AFSC Committees: Africa, International Centers.

TEAF, HOWARD M., JR.

Reviews: Herbert Hoover, *An American Epic, Vol. I, Introduction, The Relief of Belgium and Northern France*, 1914-1930; *The Annals*, Vol. 329 (May, 1960), p. 163.

Lectures: "Economic Conversion to a Peace Economy," World Peace Fair, Fallsington, Pa., Sept. 12, 1959; "Economics of Disarmament," Southampton Meeting, Oct. 24, 1959; "Appraising Proposals to Prevent Crippling Strikes," Industrial Relations Research Association, Philadelphia Chapter, Feb. 24, 1960; "Economic Preparedness for Disarmament," Philadelphia Ethical Society, May 2, 1960.

President, Pennsylvania Conference of Economists.

Member, Board of Directors and Executive Committee, Foreign Service Executive Committee, Social and Technical Assistance Subcommittee of the American Friends Service Committee.

Labor arbitration; Member, National Academy of Arbitrators.

WALTER, ROBERT I.

Reviews: John D. Roberts, *Nuclear Magnetic Resonance, Journal of Chemical Education* 36, 531 (1959).

Lectures: "Optical and Magnetic Resonance Spectra of Aminium Salt Free Radicals," Bryn Mawr College Chemistry Colloquium, Nov. 13, 1959; "Electron Distributions in Triarylaminium Salt Free Radicals," Delaware Valley Regional American Chemical Society Meeting, Philadelphia, Feb. 25, 1960; "A Course in Chemical Bonding for the Second Semester of General Chemistry," Delaware Valley Regional A. C. S. Meeting, Philadelphia, Feb. 25, 1960.

WILLIAMS, RUSSELL R., JR.

Lectures: "Chemical Effects of Low Energy Electrons," seminar at Villanova University, March 4, 1960; "Career Opportunities in Nuclear Chemistry," paper at Delaware Valley Regional American Chemical Society Meeting, Feb. 25, 1960.

Elder, Christ-West Hope Presbyterian Church.

HAVERFORD COLLEGE BULLETIN



THIS ISSUE CONTAINS THE

REPORT OF THE TREASURER AND COMPTROLLER

1959 - 1960

VOLUME LIX

NUMBER THREE

January, 1961

Administration

HUGH BORTON	<i>President</i>
B.S., Haverford College; A.M., Columbia University; Ph.D., University of Leyden; LL.D., Temple University.	
ARCHIBALD MACINTOSH	<i>Vice President and Director of Admissions</i>
B.A., Haverford College; M.A., Columbia University; Ph.D., University of Pennsylvania; LL.D., Haverford College.	
WALTER C. BAKER	<i>Vice President for Development</i>
B.A., Haverford College.	
WILLIAM EDWARD CADBURY, JR.	<i>Dean</i>
B.S. and M.A., Haverford College; Ph.D., University of Pennsylvania.	
ALDO CASELLI	<i>Comptroller and Business Manager</i>
D.S.E. and C., University of Naples.	
CRAIG RINGWALT THOMPSON	<i>Librarian</i>
A.B., Dickinson College; A.M. and Ph.D., Princeton University.	
THOMAS EDWARD DRAKE	<i>Curator of the Quaker Collection</i>
A.B., Stanford University; A.M., University of Michigan; Ph.D., Yale University.	
LOUIS CRAIG GREEN	<i>Director of the Strawbridge Memorial Observatory</i>
A.B., A.M. and Ph.D., Princeton University.	
MRS. EDYTHA M. CARR	<i>Registrar</i>
MRS. MIRIAM R. NUGENT	<i>Director of Food and Housing</i>
B.S., New York University.	
BENNETT SMEDLEY COOPER	<i>Alumni Secretary and Assistant to the President</i>
B.S., Haverford College.	
CHARLES PERRY	<i>Associate Director for Development</i>
B.A., Haverford College; M.S.S., Bryn Mawr College.	
WILLIAM WEBSTER AMBLER	<i>Associate Director of Admissions</i>
B.S., Haverford College.	
RICHARD D. KUBIK	<i>Director of Information</i>
GERTRUDE MANN WONSON	<i>Secretary to the Director of Admissions</i>
B.S., Simmons College.	
MRS. KATHARINE M. CARTER	<i>Secretary to the President</i>
A.B., Wilson College.	
MRS. FLORENCE N. ANDREWS	<i>Secretary to the Dean</i>

Medical Staff

WILLIAM WOLTER LANDER	<i>Physician</i>
B.S., Ursinus College; M.D., University of Pennsylvania.	
PETER G. BENNETT	<i>Psychiatrist for the College</i>
M.D., University of Pennsylvania.	
BERTHA KRATZ	<i>Resident Nurse</i>
R.N., Stetson Hospital.	

Philadelphia, 10th Month 18th, 1960

TO THE BOARD OF MANAGERS AND THE CORPORATION

The Treasurer is pleased to submit herewith his annual report setting forth the financial situation of the college. This report covers the fiscal year September 1st, 1959 to August 31st, 1960, and has been audited by Lawrence E. Brown and Company, the audit being attached.

Operations

Considering the increasingly large and complex operations of the college, the difficulty of budgeting and of holding expenses within the budget, we did well to end the year with a balance; it was, however, so small that I am reminded of the ancient saying "the mountain labored and brought forth a mouse," but we do have our mouse — \$1,614.

Pursuant to our policy, more fully stated in my last year's report, of a current repair and replacement program, we also managed to include in operating expenses several important items of this type: a new floor for Founders porch, renovation of rooms in Chase Hall, a new water main along College Lane, one-half payment of a major change in the heating system of Barclay Hall, a fire alarm system in the dormitory houses, and other similar works.

On the income side, raised tuitions produced more income than a year ago and income from Funds was up by \$37,972. These increases were offset by another overall increase of more than 8% in faculty salaries, and other operational expenses.

The relationship in campus housing between costs of maintenance and rental income continues to be a cause of concern to your Treasurer. Of 31 houses rented to faculty, after charging everything justifiable to principal, 6 houses operated at a deficit and 5 more yielded less than \$200 each. After amortization of 1-1/2% the overall yield on \$618,000 continues to be less than one per cent.

Other Activities

As you may not realize we carry on two extra curricular activities of some size; the student store and snack bar in the Union, and the campus bookstore, also in the Union. The object of neither of these is to make money, but to serve the students in as pleasant and useful a way as possible, it is therefore, a satisfaction to report an operation profit for the student store of \$131.68, and for the bookstore of \$323. It can readily be seen that we do not lean heavily on these enterprises to augment our income!

Comparisons

At the beginning of a new decade it might be well to look backward to the year 1949-50 to see how our operations compare with those of ten years ago.

For the year 1949-50, total operating receipts were \$873,408, this year \$1,601,517, of these receipts in 1949-50 endowment funds produced \$256,864 or 29% and alumni giving \$14,500 or 1.66%; this year our endowed funds, thanks to increases by gifts and by appreciation, produced \$599,811 or 37%, and annual giving \$110,374 or 6.89%.

It is also interesting to breakdown the operating expenses at the college for this period:

	<u>1949-1950</u>	<u>1959-1960</u>
Administration	\$101,604	\$196,371
Educational Departments	323,907	725,211
Maintenance & Operations	173,784	283,364
Dining Room & Kitchen	196,049	236,259
Development		60,855

Phrased in percentages — that of administration to total expenses remains the same at 13%, as does maintenance and operations at about 21%; dining room and kitchen is down from 24% to 15%, and Educational Departments up from 40% to 47% while Development is new in 1960 at 4%.

For a student body which decreased in size from 528 to 452, this is a rather remarkable picture of the greatly increased costs of running an educational institution. We are only grateful that our income has kept pace with our expenses.

Another area in which there has been a marked change is in that of grants for Faculty research. A young and alert faculty have sought and obtained considerable sums for research in various fields, in 1949-50 we received only \$5,220, for this purpose, in 1959-60 \$127,925.

Perhaps the greatest change of all has been in endowment. Our total endowed funds at the end of 1950 had a book value of \$5,049,000, and a market value of \$5,359,000. Today they have a book value of \$11,816,000, and a market value of \$17,450,000, plus the Wm. Maul Measey Trust of over a million dollars book value. A minor figure but one of considerable interest to investors is that connected with realized capital gains, in 1949-50 we had \$9,000 accumulated realized capital gains (after restoring the book value of the funds) today we have such gains of \$1,878,000.

Campus Real Estate

We have acquired by judicious purchase a house on College Avenue across from the campus and by generous bequest from Gladys Griscom two houses and nearly two acres of land on Montgomery Avenue next to the Merion Cricket Club. All of these houses are being or will be used as faculty residences.

We have also continued the policy of taking mortgages at a moderate rate of interest on houses bought by faculty members for their immediate needs and for retirement.

Endowment Funds and Rate of Return

This year was not outstanding from the point of view of additions to endowment funds by gifts and bequests. The total of such additions was \$220,314.

However it is gratifying to report that annual giving was maintained at its high level and the corporate gifts to operations are tending to increase.

The book and market value of our portfolio has been given above. The rate of return (not including campus real estate) on the book value of our Consolidated Investments is 6.05%, on the market 4.13%. In spite of a falling market we have realized \$246,084 in capital gains this year, and our total income from investments and trust funds has increased from \$642,880 to \$701,221 (excluding income from the Wm. Maul Measey Trust elsewhere reported).

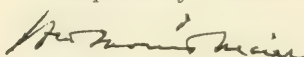
Always of interest is the percentage holdings of various categories of securities. In Consolidated Investments at the end of the fiscal year on book value we held 31% in bonds, 18% in preferred stock, 43% in common stock, 1% in mortgages, 6% in real estate; on market value the percentages were as follows: 21% in bonds, 11-1/2% in preferred stock, 62% in common stock, less than 1% in mortgages, 4% in real estate.

We continue to devote the income from certain funds to the specified purposes as required.

Conclusion

In conclusion I should like to stress again two factors; one bright and one not so bright. On the happy side is the increasing support we are receiving from devoted alumni, friends and corporate givers — now a necessity in balancing our accounts. On the darker side is the lack of additions to endowment funds by gifts and bequests. Somehow we must get across to our constituents that endowment is the solid core of support for our college and there is nothing like gifts and legacies to build that core into a substantial apple.

Respectfully submitted,



Wm. Morris Maier, Treasurer

Lawrence E. Brown & Company

ESTABLISHED 1882

Certified Public Accountants

(PENNSYLVANIA)

1917 FIDELITY-PHILADELPHIA TRUST BUILDING

PHILADELPHIA

W. EDWIN DILL
ROBERT W. JOHNSTON
R. CARL RHODES
ADDISON R. BROWN, JR.
ALBERT F. ZANGER

October 13, 1960

To the Board of Managers
The Corporation of Haverford College
Haverford, Pennsylvania

Gentlemen:

We have examined the balance sheet of The Corporation of Haverford College as at August 31, 1960, and the related statements of receipts and expenditures, operating statement and report on the funds for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

Land, buildings, improvements, furniture and equipment are written off as their cost is funded. Therefore the plant section of the balance sheet shows these assets at no value.

In our opinion, subject to the above comment relating to land, buildings, improvements, furniture and equipment, the accompanying balance sheet and the related statements of income and expenditures, operating statement and report on the funds present fairly the financial position of The Corporation of Haverford College at August 31, 1960 and the results of its operations for the year then ended, in conformity with generally accepted accounting principles for educational institutions applied on a basis consistent with that of the preceding year.

Very truly yours,



Certified Public Accountants.

BALANCE SHEET

ASSETS

Current

Cash	\$	43,853.25	
Due from Endowment, cash invested		431,672.67	
Accounts receivable, loans, etc.		60,209.22	
Prepaid insurance and expenses		104,099.77	
Inventories		31,848.59	
Deferred charges		<u>33,867.68</u>	\$ 705,551.18

Endowment

Investments: Bonds, Stocks and Mortgages (Market Value \$17,238,154.00)	\$11,614,410.76	
Perpetual fire insurance deposits	8,761.10	
Notes receivable	30,110.90	
Investment in College real estate	<u>618,298.77</u>	12,271,581.53

Plant

Land, buildings, improvements, furniture and equipment		0
---	--	---

\$12,977,132.71

— AUGUST 31, 1960

LIABILITIES

Current

Federal withholding and social security taxes payable	\$	20,748.53	
Advance receipts for following year		15,399.50	

Reserves

For operation expenditures	\$	97,208.85	
Pensions, non-faculty		95,268.50	
Death benefits, non-faculty		9,200.00	
Medical reimbursement plan		17,789.87	
Faculty research fund		1,719.60	
Library replacements		3,796.71	
Miscellaneous		846.75	
Income Reserve Account		<u>96,122.39</u>	321,952.67

Donations

Alumni Annual Giving			
For operations of following year	\$81,037.31		
For subsequent years	<u>617.02</u>	\$ 81,654.33	
For special purposes	<u>152,296.07</u>		233,950.40

Unexpended Balance of Income

From endowment funds for special purposes		93,500.08	
Trust fund principal for building program		<u>20,000.00</u>	\$ 705,551.18

Endowment

For general purposes	\$	6,289,820.35	
For Wistar Brown Graduate School		389,733.83	
For Morris Infirmary		14,712.94	
For Haverford Union		1,878.82	
For Scholarships		511,489.12	
For Library		338,996.75	
For Old Style Pensions		261,422.49	
For Special Purposes		114,172.17	
Augustus Taber Murray Research Scholarship Fund		25,281.18	
John Farnum Memorial Fund		31,741.22	
William Pyle Phillips Fund		2,434,480.58	
C. Wharton Stork Art Gift Fund		23,200.00	
Walter R. Faries Scholarship Fund		65,292.69	
Undistributed Gain — Consolidated Investments Account		<u>1,337,686.72</u>	
		\$11,839,908.86	
Due to Current Funds, cash invested		<u>431,672.67</u>	<u>12,271,581.53</u>
			<u>\$12,977,132.71</u>

OPERATING STATEMENT

For the Year ending August 31, 1960

Receipts at College — Applicable to the Budget

Tuition:			
Cash	\$ 338,756.05		
Scholarship Funds	78,894.70		
Wm. Maul Measey Trust - Student Aid	36,500.00		
Scholarships from donations	37,509.25	\$ 491,660.00	
Board		207,769.43	
Rooms		110,916.57	
Board and Rooms from non-students		46,178.23	
Unit Fee		57,919.00	
Miscellaneous receipts		54,155.68	\$ 968,598.91

Income from Funds — Applicable to the Budget

Consolidated Investments - General Funds		431,208.81	
Wm. Pyle Philips Fund - General		61,023.26	
John Farnum Memorial Fund		1,524.76	
C. Wharton Stork Art Gift Fund		222.96	
Current funds invested		19,749.88	
From Trusts:			
Henry C. Brown	\$ 5,200.00		
Nathan Branson Hill	172.95		
W. Percy Simpson	1,814.74	7,187.69	520,917.36

Donations Applicable to the Budget

From General Purposes	69,581.16	
From Other Donations	40,793.73	110,374.89

Interest received

	1,626.12
TOTAL RECEIPTS	\$1,631,517.28

Expenses of running the College

Administration	\$ 196,371.35	
Educational Department	725,211.49	
Maintenance and Operations	283,364.41	
Dining Room and Kitchen	236,259.11	
Development	60,855.28	\$1,502,061.64

Miscellaneous Expenses

Treasurer's, Secretary's, Legal, Board expenses and services	\$ 15,163.09	
Old Style Pensions	24,199.96	
Interest paid	2,635.14	
Working aid to students	7,908.13	
Pensions to Non Faculty and Reserve	12,935.00	
Reserve for Non Faculty Death Benefit	1,000.00	
Replacement and repair to plant	34,000.00	97,841.32
		\$1,599,902.96

OPERATING SURPLUS ADDED TO INCOME RESERVE \$ 1,614.32

INCOME RESERVE ACCOUNT

AUGUST 31, 1960

Balance in Reserve August 31, 1959	\$ 94,508.07
Operating Surplus for year 1959 - 1960	\$ 1,614.32
Net Position of Income Reserves August 31, 1960	<u>\$ 96,122.39</u>

THE CORPORATION OF HAVERFORD COLLEGE

NON-FACULTY PENSIONS RESERVE ACCOUNT

RECEIPTS

Balance September 1, 1959	\$84,660.99	
Composed of accumulated reserves and interest		
Added:		
Yearly payments for future and past services	9,116.00	
On account of payments of retired persons	3,819.00	
Interest	<u>2,539.83</u>	\$100,135.82

EXPENDITURES

Pensions paid to nine persons;

W. J. Anderson, Mabel Beard, Alfred J. Harris, Anna B. Hewitt, Mary Norris, J. Otto Rantz, Emanuel Strothers, Henry Wilson, Walter Muraski	<u>4,867.32</u>
Balance August 31, 1960	<u>\$ 95,268.50</u>

NON FACULTY DEATH BENEFIT RESERVE FUND

Balance September 1, 1959	\$ 8,200.00
Composed of accumulated reserves	
Annual appropriation	<u>1,000.00</u>
Balance August 31, 1960	<u>\$ 9,200.00</u>

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL			INCOME			Special Income Summary
Book Value 9/1/59	Increase	Decrease	Book Value 8/31/60	Cr. Balance 8/31/60	Special	
FUNDS FOR GENERAL PURPOSES						
\$ 101,802.64	\$ 4,500.00		\$ 106,302.64	\$ 7,562.87	\$ 7,562.87	
10,640.09			John M. Whitall Fund.....	770.26	770.26	
44,806.59			David Scull Fund.....	2,394.12	2,394.12	
11,364.35			Edward L. Scull Fund.....	332.37	332.37	
5,144.24			Wistar Morris Memorial Fund.....	483.59	483.59	
10,781.94			Israel Franklin Whitall Fund.....	788.57	788.57	
1,301,375.34			Jacob P. Jones Endowment Fund.....	103,953.64	80,178.64	\$23,775.00 ¹
275,899.76			John Farnum Brown Fund.....	18,585.11	18,520.11	65.00 ²
21,493.67			Clementine Cope Endowment Fund.....	816.05	816.05	
42,394.72			Joseph E. Gillingham Fund.....	3,795.42	3,795.42	
9,160.24			Elizabeth H. Farnum Fund.....	838.95	838.95	
45,035.96			James R. Magee Fund.....	3,037.08	3,037.08	
1,500.00			Albert K. Smiley Fund.....	142.88	142.88	
39,515.48			Hinchman Astronomical Fund.....	3,198.26	3,198.26	
174,560.31			Walter D. & Edith M. L. Scull Fund.....	15,773.35	15,773.35	
26,771.00			Albin Garrett Memorial Fund.....	2,975.71	2,975.71	
24,381.59			Arnold Chase Scattergood Mem'l Fund.....	1,332.62	1,332.62	
125,569.51			Francis B. Gummere Memorial Fund.....	10,248.74	10,248.74	
218,728.43			Isaac Sharpless Memorial Fund.....	16,644.35	16,644.35	
126,076.83			General Education Board Fund.....	10,928.33	10,928.33	
102,067.43			William Penn Foundation.....	8,356.53	8,356.53	
14,125.79			Walter Carroll Brinton Memorial Fund.....	1,284.98	1,284.98	
25,128.94			Corporation Fund.....	1,648.59	1,648.59	
10,000.00			Elizabeth J. Shortridge Fund.....	71.44	71.44	
5,527.31			Howard Comfort Memorial Fund.....	374.60	374.60	
67,520.19			Ellen W. Longstreth Fund.....	6,297.62	6,297.62	
5,000.00			Albert L. Bailly Fund.....	457.94	457.94	
4,950.00			Elizabeth B. Wistar Warner Fund.....	424.05	424.05	
280,764.31			T. Allen Hilles Bequest.....	20,490.16	20,490.16	
7,000.00			Leonard L. Greif, Jr. & Roger L. Grief Fund.....	510.15	510.15	
2,500.00			Edward M. Wistar Fund.....	242.72	242.72	
1,369,519.75			Morris E. Leeds Fund.....	78,041.53	66,691.53	11,350.00 ¹
12,000.00			J. Henry Scattergood Fund.....	761.10	761.10	
103,993.26			Parker S. Williams Fund.....	8,119.32	8,119.32	
5,000.00			Gilbert C. Fry Fund.....	336.13	336.13	
2,500.00			Daniel B. Boyer Fund.....	195.08	195.08	
10,000.00			Marriott C. Morris Fund.....	790.42	790.42	
189,578.65	1,184.97		1949 Campaign Salary Fund.....	11,849.70	10,564.73	1,184.97 ³
			Forward.....	\$345,454.33	\$309,079.36	\$36,374.97

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL				INCOME					Special Income Summary
Book Value 9/1/59	Increase	Decrease	Book Value 8/31/60	Balance 9/1/59	Net Income	Expended	Special	Cr. Balance 8/31/60	
\$4,834,178.32	\$ 5,684.97		\$4,839,863.29		\$ 345,454.33	\$ 309,079.36	\$36,374.97		
Forward									
FUNDS FOR GENERAL PURPOSES (continued)									
\$ 374,639.10	\$ 2,364.99		\$ 377,004.09		\$ 23,649.94	\$ 21,284.95	\$ 2,364.99 ³		
36,178.02			36,178.02		2,106.53	2,106.53			
25,068.15			25,068.15		1,557.00	1,557.00			
37,187.20			37,187.20		2,381.30	1,881.30	500.00 ¹		
5,000.00			5,000.00			321.47			
4,500.00			4,500.00		210.65	210.65			
124,844.49	560.98		125,405.47	\$ - 524.80	13,953.55		11,550.00 ¹		
								560.98 ³	1,317.77
345,000.00			345,000.00		15,758.69	15,758.69			
214,000.00			214,000.00		9,788.96	9,788.96			
12,426.18			12,426.18		576.09	576.09			
10,000.00			10,000.00		447.87	447.87			
7,202.50	375.00		7,577.50		327.87	327.87			
35,000.00			35,000.00		1,380.24	1,380.24			
10,000.00			10,000.00		393.83	393.83			
500.00	500.00		1,000.00	13.04	32.51				45.55
179,610.45			179,610.45		7,622.70	7,622.70			65.00 ²
25,000.00			25,000.00		416.66	416.66			4,110.94 ³
\$6,075,724.96	\$214,096.39		\$6,289,820.35	\$ - 511.76	\$426,380.19	\$373,154.17	\$51,350.94	\$ 1,363.32	\$51,350.94
Forward									
FUNDS FOR WISTAR BROWN GRADUATE SCHOOL									
\$ 387,107.81	\$ 2,626.02		\$ 389,733.83		\$ 26,260.21	\$ 21,134.19	\$ 2,626.02 ³		
Forward									
FUNDS FOR MORRIS INFIRMARY									
\$ 9,653.44			\$ 9,653.44		\$ 842.61	\$ 842.61			
5,059.50			5,059.50		458.86	458.86			
14,712.94			14,712.94		1,301.47	1,301.47			
Forward									
FUNDS FOR HAVERFORD UNION									
\$ 1,878.82			\$ 1,878.82		\$ 98.92	\$ 98.92			
Forward									
FUNDS FOR SCHOLARSHIPS									
\$ 5,257.82			\$ 5,257.82		\$ 347.31	\$ 468.93	\$ 378.64 ¹	\$ 437.60	
6,069.23			6,069.23		450.61	450.61	500.00 ¹	448.60	
19,817.40			19,817.40		920.62	1,087.15	1,600.00 ¹	407.77	
5,056.25			5,056.25		332.81	495.49	320.12 ¹	508.18	
7,013.61			7,013.61		270.96	520.22	400.00 ¹	391.18	
Forward									
\$ 43,214.31			\$ 43,214.31		\$ 2,369.69	\$ 3,022.40	\$ 3,198.76	\$ 2,193.33	

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL				INCOME				Special Income Summary
Book Value 9/1/59	Increase	Decrease	Book Value 8/31/60	Balance 9/1/59	Net Income	Expended	Special	
\$ 43,214.31			\$ 43,214.31	\$ 2,369.69	\$ 3,022.40		\$ 3,198.76	\$ 2,193.33
Forward.....								
FUNDS FOR SCHOLARSHIP (continued)								
\$ 7,919.76			\$ 7,919.76	\$ 401.01	\$ 649.36		\$ 500.00 ¹	\$ 550.37
22,845.86			22,845.86	2,635.98	1,403.13			4,039.11
10,083.68			10,083.68	48.59	427.72		600.00 ¹	- 220.87
6,951.21			6,951.21	534.65	531.21		650.00 ¹	415.86
5,155.85			5,155.85	252.25	484.50		300.00 ¹	432.98
12,807.19	\$ 1,572.94		14,380.13	577.34	958.35		500.00 ¹	1,035.69
5,045.60			5,045.60	285.09	381.92		378.57 ¹	288.44
22,250.00			22,250.00	1,203.38	1,991.13		1,300.00 ¹	1,894.51
5,017.31			5,017.31	181.17	328.80		300.00 ¹	209.97
3,000.00			3,000.00	190.42	274.77		200.00 ¹	265.19
11,179.00	21.00		11,200.00	498.11	815.14		392.79 ¹	920.46
10,000.00			10,000.00	795.89	681.42		600.00 ¹	877.31
75,534.58			75,534.58	4,660.62	6,917.67		4,600.00 ¹	6,978.29
40,275.01			40,275.01	1,816.65	3,207.42		2,300.00 ¹	2,724.07
17,050.00			17,050.00	294.78	1,448.01		964.68 ¹	1,308.11
5,000.00			5,000.00	827.67	457.94		315.20 ¹	440.41
30,000.00			30,000.00	1,429.96	2,295.20		1,900.00 ¹	1,825.16
3,000.00			3,000.00	151.24	233.55		200.00 ¹	184.79
20,000.00			20,000.00	524.81	1,113.71		600.00 ¹	1,038.52
15,000.00			15,000.00	633.15	1,089.90		950.00 ¹	773.05
2,700.00			2,700.00	270.23	193.25		300.00 ¹	163.48
50,453.36	309.57	\$ 1,000.00	49,762.93	834.30	3,095.69		12,900.00 ¹	720.42
14,414.52	368.26		14,782.78		868.26		1,309.57 ³	- 0 -
25,000.00			25,000.00		1,419.62		1,500.00 ¹	416.36
6,245.11			6,245.11	496.74	387.42		365.93 ¹	192.33
5,000.00			5,000.00	170.84	321.48		300.00 ¹	193.20
6,000.00			6,000.00	171.72	329.72		300.00 ¹	159.97
10,000.00			10,000.00	130.25	449.70		1,000.00 ¹	681.38
4,000.00	1,000.00		5,000.00	1,231.68	194.93		800.00 ¹	629.99
11,925.00	650.00		12,575.00	435.06	576.45		222.58	\$28,719.70 ¹
507,067.35	\$ 5,421.77	\$ 1,000.00	\$ 511,489.12	446.13	55.43			677.83 ³
				\$24,402.22	\$ 36,605.20		\$29,397.53	\$ 31,609.89
\$ 17,435.06			\$ 17,435.06		\$ 1,097.23		\$ 1,097.23	\$29,397.53
FUNDS FOR THE LIBRARY								
\$ 17,435.06			\$ 17,435.06		\$ 1,097.23		\$ 1,097.23	\$ 1,097.23
\$ 17,435.06			\$ 17,435.06		\$ 1,097.23		\$ 1,097.23	\$ 1,097.23
Forward								

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL				INCOME				Special Income Summary
Book Value 9/1/59	Increase	Decrease	Book Value 8/31/60	Balance 9/1/59	Net Income	Expended	Special	
\$ 17,435.06		\$ 17,435.06			\$ 1,097.23	\$ 1,097.23		
\$ 68,223.55	\$ 14.57		\$ 68,238.12					
FUND 1								
5,000.00			5,000.00		\$ 4,736.03			
20,306.74			20,306.74	\$ 309.79	85.18			
173,078.14			173,078.14	3,694.24	1,533.19			
635.47			635.47		15,291.59	\$ 12,825.23		
1,002.34			1,002.34	143.94	54.95			
6,550.00			6,550.00	180.39	91.59			
1,253.52			1,253.52	1,258.92	599.90			
600.00			600.00	375.39	114.49			
1,500.00			1,500.00	83.10	54.95			
5,000.00			5,000.00	2,687.00	394.75			
36,681.37	230.99		36,912.36	699.71	2,309.86			
1,485.00	1,485.00		1,485.00		13.73			
\$ 337,266.19	\$ 1,730.56		\$ 338,996.75	\$ 10,227.08	\$ 26,495.59	\$ 13,922.46	\$ 11,858.78	\$ 10,941.43
FUND 2								
41,237.08			41,237.08		\$ 3,484.02	\$ 3,484.02		
36,738.66			36,738.66		3,399.76	3,399.76		
68,113.78			68,113.78		4,513.47	4,513.47		
3,272.24			3,272.24		285.76	285.76		
112,040.73			112,040.73		9,208.29	9,208.29		
\$ 261,422.49			\$ 261,422.49	\$ 20,891.30	\$ 20,891.30			
FUND 3								
5,248.00			5,248.00	\$ 80.06	\$ 479.92		\$ 410.20 ⁴	\$ 149.78
1,126.75			1,126.75	- 6.77	21.98		15,003	.21
2,247.87	\$ 1,950.00		4,197.87	2,178.68	237.66		1,950.00 ³	466.34
9,227.07			9,227.07	1,609.98	578.84		200.006	1,988.82
2,296.88			2,296.88	683.26	219.81		95.002	808.07
1,727.00			1,727.00	1,645.99	158.45			1,804.44
2,546.88			2,546.88	- 117.06	247.29		100.005	30.23
5,120.30			5,120.30	- 24.74	468.93		137.527	306.67
4,302.19	273.31		4,575.50		323.31		50.002 ¹	- 0 -
33,842.94	\$ 2,223.31		36,066.25	\$ 6,049.40	\$ 2,736.19		1273.31 ¹	\$ 5,554.56
FUND 4								
5,248.00			5,248.00		\$ 479.92		\$ 410.20 ⁴	\$ 149.78
1,126.75			1,126.75	- 6.77	21.98		15,003	.21
2,247.87	\$ 1,950.00		4,197.87	2,178.68	237.66		1,950.00 ³	466.34
9,227.07			9,227.07	1,609.98	578.84		200.006	1,988.82
2,296.88			2,296.88	683.26	219.81		95.002	808.07
1,727.00			1,727.00	1,645.99	158.45			1,804.44
2,546.88			2,546.88	- 117.06	247.29		100.005	30.23
5,120.30			5,120.30	- 24.74	468.93		137.527	306.67
4,302.19	273.31		4,575.50		323.31		50.002 ¹	- 0 -
33,842.94	\$ 2,223.31		36,066.25	\$ 6,049.40	\$ 2,736.19		1273.31 ¹	\$ 5,554.56

REPORT ON CONSOLIDATED FUNDS

PRINCIPAL				INCOME				Special Income Summary
Book Value 9/1/59	Increase	Decrease	Book Value 8/31/60	Balance 9/1/59	Net Income	Expended	Cr. Balance 8/31/60	
\$ 33,842.94	\$ 2,223.31		\$ 36,066.25	\$ 6,049.40	\$ 2,736.19		\$ 5,554.56	
\$								
\$ 2,155.00			\$	\$ 883.01	\$ 202.41		\$ 100.00 ²	\$ 985.42
1,397.75				- 195.99	269.27		50.00 ⁵	23.28
2,400.00					178.60	\$ 178.60		- 0 -
9,362.75	\$ 5,000.00			- 89.23	800.11			- 164.27
2,000.00				1,182.34	183.18			1,315.52
					110.00 ¹			
1,000.00					191.59 ¹	71.59		30.00 ²
3,839.54					1350.78 ¹			291.02
7,117.62	243.97			678.84				
1,675.43	69.97				510.15			- 0 -
2,491.50					130.97			- 0 -
7,000.00				780.22	228.05			1,008.27
1,422.90					584.33			- 225.26
6,315.00					37.00			39.82
					489.08			897.75
1,006.50					177.85 ¹			227.42
902.55					48.54			374.44
15,043.62					912.22			165.00 ⁵
1,457.44					- .95	456.11		24.46
560.00					88.41			17.47
100.00	100.00				6.33			200.00 ⁶
4,000.00					- 10.96			1,012.67 ⁷
2,784.38					235.21			90.89
\$ 106,534.92	\$ 7,637.25		\$ 114,172.17	\$ 12,062.80	\$ 8,286.88	\$ 706.30	\$ 8,815.08	768.60 ⁸
					- 16.98			- 17.23
								416.81
								266.18 ⁹
								- 32.07
								\$ 10,828.30
								\$ 8,815.08

REPORT ON NON CONSOLIDATED FUNDS

\$ 31,741.22	\$	31,741.22	John Farnum Memorial Fund.....	\$	1,524.76	\$	1,524.76
- 0 -			- 0 - Nathan Branson Hill Trust.....		172.95		172.95
- 0 -			- 0 - W. Percy Simpson Trust.....		1,814.74		1,814.74
- 0 -			- 0 - Henry C. Brown Trust.....		5,200.00		5,200.00
24,907.42	\$	373.76	Augustus Taber Murray Res. Sch. Fund.....		1,353.76		\$ 373.76 ³
56,648.64	\$	373.76	Forward.....		\$ 10,066.21	\$	8,712.45
							\$ 1,353.76

REPORT ON NON-CONSOLIDATED FUNDS (continued)

PRINCIPAL		
Book Value 9/1/59	Increase	Book Value 8/31/60
\$ 56,648.64	\$ 373.76	\$ 57,022.40
\$ 57,950.00	\$ 7,342.69	\$ 65,292.69
\$2,285,990.55	148,490.03	2,434,480.58
\$2,400,589.19	\$56,206.48	\$2,556,795.67

	INCOME				Special Income Summary
	Balance 9/1/59	Net Income	Expended	Special	
Forward		\$ 10,066.21		\$8,712.45	\$ 1,353.76
Walter R. Faries Scholarship Fund		\$ 2,795.00		\$2,272.92	\$ 522.08
		1 20.70			
William Pyle Philips Fund		1122,046.52			
General			\$ 61,023.26		
				{19,177.885}	
Special	\$ 36,959.54			{32,761.6512}	
Total	\$ 36,959.54	\$ 134,928.43	\$ 69,735.71	\$64,856.32	\$ 36,773.86
				{ 9,290.1113}	\$ 37,295.94

SUMMARY OF CONSOLIDATED AND NON-CONSOLIDATED FUNDS

	Book Value		Book Value		Net Income
	9/1/59	Increased	Decreased	8/31/60	
Funds for General Purposes	\$ 6,075,723.96	\$214,096.39		\$ 6,289,820.35	\$426,380.19
Funds for T. Wistar Brown Graduate School	387,107.81	2,626.02		389,733.83	26,260.21
Funds for Morris Infirmary	14,712.94			14,712.94	1,301.47
Funds for Haverford Union	1,878.82			1,878.82	98.92
Funds for Scholarships	507,067.35	5,421.77	\$1,000.00	511,489.12	36,605.20
Funds for Library	387,266.19	1,730.56		388,996.75	26,495.59
Funds for Old Style Pensions	261,422.49			261,422.49	20,891.30
Funds for Special Purposes	106,534.92	7,637.25		114,172.17	8,286.88
Gains	1,240,091.83	97,594.89		1,337,686.72	
Total Consolidated Funds	\$ 8,931,806.31	\$329,106.88	\$1,000.00	\$ 9,259,913.19	\$546,319.76
Total Non-Consolidated Funds	2,400,589.19	156,206.48		2,556,795.67	134,928.43
Total Funds	\$11,332,395.50	\$485,313.36	\$1,000.00	\$11,816,708.86	\$681,248.19

NET INCREASES IN CONSOLIDATED AND NON-CONSOLIDATED FUNDS

The Book Value increased \$484,313.36 as follows:

Donations for additions to Funds	\$220,314.39
Income transferred to Principal	10,571.36
Net gains on securities sold or called:	
Consolidated Investments	97,594.89
Wm. Pyle Philips Investments	148,490.03
Walter R. Faries Scholarship Fund	7,342.69
	<u>\$484,313.36</u>

INCOME RETURN: The net income return after allowing custodian fees to our fiscal agent was 6.05% on book value and 4.13% on market value of Consolidated Investments at end of fiscal year. (Does not include College Real Estate.)

CLASSIFICATION OF INVESTMENTS

AUGUST 31, 1960

CONSOLIDATED ACCOUNT

<u>BONDS</u>	<u>BOOK VALUE</u>	<u>TOTAL</u>	<u>MARKET VALUE</u>	<u>TOTAL</u>	<u>BOOK VALUE</u>	<u>TOTAL</u>	<u>MARKET VALUE</u>	<u>TOTAL</u>
U. S. Government.....	\$ 214,470.31		\$ 219,900		\$ -0-		\$ -0-	
Municipal	-0-		-0-		40,300.00		41,000	
Industrial	783,849.69		787,008		180,377.50		184,570	
Public Utility.....	838,880		838,880		214,149.25		208,950	
Railroad.....	671,378.42		587,747		211,430.80		183,925	
Inst. of Govt.	250,275.00		256,500		-0-		-0-	
Foreign	258,062.50	\$3,021,923.67	267,300	\$ 2,967,335	85,000.00	\$ 731,657.55	89,250	\$ 707,695

PREFERRED STOCK

Industrial	\$ 912,456.84		\$ 818,573		\$ 12.72		\$ 12	
Public Utility.....	574,404.35		532,740		-0-		-0-	
Railroad.....	242,150.87	\$1,729,012.06	256,400	\$ 1,607,713	15,467.75	\$ 15,480.47	18,000	\$ 18,012

COMMON STOCK

Banks & Insurance.....	\$ 788,419.98		\$1,573,348		\$ 142,363.54		\$ 203,962	
Industrial	1,731,871.12		3,895,804		1,046,133.36		1,808,525	
Public Utility	1,418,069.93		2,690,003		506,922.09		1,095,292	
Railroad	223,789.05		280,420		31,725.45		24,625	
Miscellaneous.....	51,380.00	\$4,213,530.08	186,200	\$ 8,625,775	19,219.83	\$1,746,364.27	32,400	\$3,164,804

MORTGAGES

	99,828.60	99,828
--	-----------	--------

MISCELLANEOUS

College Real Estate	\$ 618,298.77		\$ 618,299		657,171			
Miscellaneous	38,872.00	\$ 657,170.77	38,872					

CASH

over invested	- 461,551.99		- 461,551		63,293.38		63,293	
	\$9,259,913.19		\$13,496,271		\$2,556,795.67		\$3,953,804	

NOTE: There is also held \$56,614.06 Banks & Insurance stock not included in the above figures, being holdings in C. Wharton Stork Art Gift Fund which is not included in the Funds.
This fund has an overdraft in principal cash of \$33,414.06.

SUMMARY OF THE ACCOUNTS OF
THE CORPORATION OF HAVERFORD COLLEGE

WM. MORRIS MAIER, TREASURER

ALDO CASELLI, COMPTROLLER

For the year ending August 31, 1960

RECEIPTS

Income for Endowment Funds Consolidated

Funds for General Purposes	\$ 426,380.19	
T. Wistar Brown Graduate Sch. Fd.	26,260.21	
Morris Infirmary Funds	1,301.47	
Haverford Union Funds	98.92	
Scholarship Funds	36,605.20	
Library Funds	26,495.59	
Old Style Pensions Funds	20,891.30	
Special Purposes Funds	8,286.88	\$ 546,319.76

Income from Non-Consolidated Funds

John Farnum Memorial Fund	\$ 1,524.76	
Nathan Branson Hill Trust	172.95	
W. Percy Simpson Trust	1,814.74	
Henry C. Brown Trust	5,200.00	
Ausustus Taber Murray Research Scholarship Fund.....	1,353.76	
Walter R. Faries Scholarship Fund	2,795.00	
Charles Wharton Stork Art Gift Fund	222.96	
Wm. Pyle Philips Fund	122,067.22	\$ 135,151.39

Income from Current Funds Invested

19,749.88 \$ 701,221.03

Income from College Sources

Tuition and Dropped Courses	\$ 491,660.00	
Board	207,769.43	
Rooms	110,916.57	
Board and Room from non-students:		
Rent	\$ 2,959.00	
Rooms: Guests, alumni, faculty and employees	6,708.50	
Day students	3,629.59	
Guests, alumni, faculty and employees	23,207.77	
Summer Conferences — Rooms and meals	9,673.37	46,178.23
Unit Fee		57,919.00

Miscellaneous Collections

Snack Bar	\$ 131.68		
Infirmary	558.10		
Fines	785.00		
Transcripts	888.59		
Sale of wood and junk	392.50		
Rent of truck and land	551.91		
Admission to athletic games	1,461.87		
Sundry minor collections	1,837.67		
Admission fee	6,860.00		
Discounts earned	450.42		
Overhead: Research Projects	10,157.34		
T. A. Benham's Project	2,227.50		
Overhead in connection with work done for outsiders	182.47		
Overhead granted by certain coporative scholarships	10,100.00		
Rental of Dining Room	7,000.00		
From Philips Account for Public Relations Cost	3,000.00		
Dividends on Fire Insurance Policies	7,570.63	54,155.68	968,598.91

Forward..... \$1,669,819.94

Forward.....	\$1,669,819.94
--------------	----------------

Interest Received

1,626.12

Donations for Additions to Funds

(as per schedule)	220,314.39
-------------------------	------------

Donations other than Funds

For General and Special Purposes:

From Lindback Foundation.....	\$	1,000.00	
From Rockefeller Foundation		2,579.46	
From Lydia Stokes.....		10,000.00	
From Wm. Amer Co.		300.00	
From Wm. Ezerman		100.00	
From A. G. Ashbrook.....		100.00	
From Wm. Maul Measey Trust.....		6,637.03	
From Wm. Maul Measey		175.00	
From Caroline Newton		3,860.00	
From Cletus Oakley.....		457.96	
From Anonymous		10.00	
From Carroll Grisdale & Van Alen		1,231.53	
From E. I. duPont de Nemours		5,500.00	
From Main Line School Night		500.00	
From Bryn Mawr College		500.00	
From J. B. Calkin Memorial Fund		500.00	
From Philadelphia Quartz Co.		5,000.00	
From Equitable Life Insurance Co.		1,000.00	
From Esso Foundation		5,000.00	
From Class of 1959 Gift		550.00	
From Class of 1960 Gift.....		170.00	
From N. W. Ayer		100.00	
From Foundation for Independent Colleges (Penna.) ..		8,991.70	
From Campbell Soup Co.		2,500.00	
From Bethlehem Steel Co.		4,000.00	
From Sundry gifts for Special Purposes		2,072.82	
	\$	62,835.50	

For Scholarships:

From The Abbott Foundation	750.00
From African-American Institute	2,500.00
From Amherst College	600.00
From Bedford Scholarship Committee of Staples High School, Westport, Conn.	250.00
From Bishop's Fund — Diocese of Penna.	1,112.50
From Kathleen M. & Martin M. Decker Foundation ..	1,000.00
From Wilson Meyers.....	200.00
From National Association of Secondary Schools	1,000.00
From Nat'l Sch. Serv. & Fd. for Negro Students.....	600.00
From Optimist Club of Germantown	250.00
From Pittsburgh Plate Glass Foundation	2,000.00
From Public Welfare Foundation	1,000.00
From Rensselaer Polytechnic Institute	350.00
From Rotary Club of Colonial Park, Harrisburg	250.00
From Students Association of Haverford College	640.00
From Union College.....	800.00
From Upper Darby Senior High School Mendenhall Memorial Foundation	300.00
From Yale University	650.00
From Friends of George Tai	670.00
From Lindback Foundation	1,000.00
From Union Carbide Corp.	3,800.00
From Scott Foundation	3,000.00
From Board of Education	2,800.00
From Haverford Society of Maryland	25.00
From Haverford Society of New England	525.00
From General Motors Corp.	7,020.00
From National Merit Corp.	8,650.00
From Sears, Roebuck Fund	800.00
From Johnson Motor Lines	400.00
	\$ 41,942.50

Forward	\$1,891,760.45
---------------	----------------

Forward

\$1,891,760.45

Donations other than Funds (continued)

<u>For Scholarships:</u>	\$	41,942.50		
From Glidden Co.	\$	300.00		
From Friends Freedmen's Association.....		3,000.00		
From Director of City Trusts (Phila.)		400.00	\$	46,642.50

For Library and Books

From Library Associates		836.50		
From Shoemaker Foundation		3,000.00		
From M. Conklin		100.00		
From Barnett Parker		25.00		
From Matzke Royalties.....		33.53		
From E. Pomerantz		15.00		
From John A. Kittridge Fund		250.00		
From Friend of John A. Kelly		80.00	\$	4,340.03

For Radio Club:

From interest				95.31
---------------------	--	--	--	-------

For Music:

From Friends of Music.....	\$	665.00		
From College Budget		341.73		1,006.73

For Students Loans:

Repayments				100.00
------------------	--	--	--	--------

For Prizes:

From Anonymous				100.00
----------------------	--	--	--	--------

For Equipment of Plant:

From Esso Foundation	\$	5,000.00		
From Shell Co.		1,500.00		
From E. I. duPont de Nemours		2,500.00		
From Smith, Kline & French Foundation		2,500.00		11,500.00

For J. B. Calkin Memorial Fund:

From Friends				135.00
--------------------	--	--	--	--------

For Faculty Projects:

From National Institute of Health	\$	33,027.00		
From Social Science Research Council		10,000.00		
From National Science Foundation		53,300.00		
From American Chemical Society		5,000.00		
From Atomic Energy Commission		5,586.87		
From Children's Hospital — Sale.....		452.73		
From Mrs. Green		394.29		
From Strawbridge Observatory Fund		164.45		107,925.34

For Research in Public Affairs:

From Ford Foundation				20,000.00
----------------------------	--	--	--	-----------

<u>For Class Anniversary Gifts</u>				8,667.97
--	--	--	--	----------

For Alumni Association:

From Alumni Association	\$	6,379.00		
From Annual Giving.....		97,602.18	103,981.18	367,329.56

For Human Relations Account:

From Anonymous				4,437.60
----------------------	--	--	--	----------

Forward \$2,263,527.61

Forward	\$2,263,527.61
---------------	----------------

Donations other than Funds (continued)

Additions to Funds — Income transferred to Principal

1949 Campaign Salary Fund	\$ 1,184.97	
Rufus M. Jones Fund for Advancement of Teaching	2,364.99	
J. Horace Cook Fund	560.98	
Moses Brown Fund	2,626.02	
1949 Campaign Scholarship Fund	309.57	
Max Leuchter Scholarship Fund	368.26	
Mary Farnum Brown Fund	14.57	
1949 Campaign Library Fund	230.99	
George Peirce Prize Fund	273.31	
Jacob & Eugenie Bucky Memorial Foundation	243.97	
Mathematics Department Prize Fund	69.97	
John B. Garrett Reading Prize Fund	1,950.00	
Augustus Taber Murray Research Scholarship Fund	373.76	\$ 10,571.36

Reserve for Non-Faculty Pensions (see account)

Pensions	\$ 12,935.00	
Interest	2,539.83	15,474.83

Death Benefit for Non-Faculty (see account)

Annual appropriation	1,000.00
----------------------------	----------

Faculty Research Fund

From Donations for research	\$ 2,500.00	
From Shell Co.	500.00	
From Royalties on Swan Grant	95.95	3,095.95

Medical Reimbursement Plan

From Budget	5,000.00
-------------------	----------

Miscellaneous Items to Balance Accounts

Library Collections	\$ 5,203.42	
Skating Pond — receipts	119.65	
Taxes Withheld	176,619.89	
Sales Tax Collections	2,591.57	
In & Out	1,009.06	
Collections from faculty, students and others for work done	4,861.80	
Student Store — gross sales	22,544.34	
Loans repaid	1,800.00	
Student affairs	496.51	
Bookstore Collections	69,530.52	
Accounts Receivable — Students	1,014,515.87	
Accounts Receivable — Others	73,312.94	
Accounts Receivable — U.S. Government	29,804.25	
Wm. Maul Measey Trust — receipts	34,430.14	
Treasurer's In & Out	20,075.00	
Over & Short	20.89	\$1,456,935.85

Items Relating to other Fiscal Years

Advance receipts for following year	\$ 8,328.02	
Rooms paid in advance	7,071.48	
Expenses for following years	51,123.62	
Prepaid Insurance	12,272.73	
Accounts Payable	97,208.85	
Inventories	12,597.54	188,602.24

Investments Realized

Consolidated Investments

Bonds — Government	\$ 50,000.00
Industrial	5,022.02

Forward	\$3,944,207.84
---------------	----------------

Forward..... \$3,944,207.84

Consolidated Investments (continued)

<u>Bonds</u> — Public Utility	\$ 4,019.80	
Railroad	35,000.00	
Inst. of the Govt.	100,000.00	
<u>Common Stock</u> — Banks & Insurance	20,621.62	
Industrial	132,341.18	
Public Utility	387.60	
Mortgages — payments made	7,031.64	
College Real Estate	10,681.55	
Miscellaneous	753.98	365,859.39

Non-Consolidated Investments

Wm. Pyle Philips Investments

<u>Bonds</u> — Government	\$ 50,000.00	
Public Utility	3,000.00	
Railroad	12,000.00	
<u>Common Stock</u> — Banks & Insurance	32.00	
Industrial	268,322.26	
Public Utility	34,619.10	367,973.36

John Farnum Memorial Fund..... 28.12

Walter R. Faries Scholarship Fund..... 40,042.69 773,903.56

Balances September 1, 1959

Treasurer's Account	287,756.42	
President's Account	33,231.61	320,988.03

TOTAL RECEIPTS \$5,039,099.43

EXPENDITURES

Expenses of running the College

Administration

Salaries	\$ 142,090.50	
Supplies & Postage	11,304.01	
Services	3,094.59	
Telephone & Telegraph	2,202.40	
Replacement & Repair	1,031.42	
Additional Equipment	202.50	
Taxes	2,792.74	
Insurance	587.64	
Traveling	2,617.23	
Public Relations	12,160.98	
Printing	9,387.32	
Entertainment	5,218.57	
Ad Hoc Committee	3,681.45	\$ 196,371.35

Educational Department

Salaries	614,649.47
Supplies & Postage	67,180.89
Services	19,294.40
Telephone & Telegraph	3,375.04
Replacement & Repair	2,789.92
Additional Equipment	43.00
	707,332.72

<u>Educational Department (continued)</u>	\$ 707,332.72	
Taxes	\$ 11,020.21	
Insurance	2,337.70	
Traveling	2,858.02	
Not Elsewhere Classified	<u>1,662.84</u>	\$ 725,211.49

Maintenance & Operation

Salaries	\$ 138,525.95	
Supplies	14,812.23	
Contracts	14,490.59	
Water, Heat, Light & Power	24,910.81	
Telephone	623.30	
Replacement & Repair	36,534.37	
Additional Equipment	1,514.57	
Taxes	14,195.51	
Insurance	7,058.70	
Traveling	319.50	
Not Elsewhere Classified	<u>30,375.88</u>	283,364.41

Kitchen

Salaries	\$ 74,972.19	
Supplies	122,916.07	
Services	16,424.96	
Water, Heat, Light & Power	7,640.60	
Telephone & Telegraph	361.54	
Replacement & Repair	11,954.95	
Taxes	1,738.54	
Insurance	<u>250.26</u>	236,259.11

Development

Salaries	\$ 38,076.45	
Supplies	10,745.71	
Services	9,931.15	
Telephone & Telegraph	497.37	
Replacement & Repair	157.32	
Taxes	719.59	
Insurance	118.49	
Traveling	<u>609.20</u>	\$ 60,855.28 \$1,502,061.64

Miscellaneous Expenses

Treasurer's, Secretary's, Board		
Legal expenses and services	\$ 15,163.09	
Old Style Pensions	24,199.96	
Interest	2,635.14	
Work aid to students	7,908.13	
Pensions and reserve to Non-Faculty	12,935.00	
Reserve for Death Benefit for Non-Faculty	1,000.00	
Replacement & Repair to Plant	<u>34,000.00</u>	\$ 97,841.32

Expenditures from Income of Funds

From General Funds

For Prizes	\$ 65.00	
For Scholarships	<u>47,175.00</u>	\$ 47,240.00

From Scholarship Funds

For Graduate Fellowships	2,500.00	
For Annuities	<u>2,272.92</u>	80,732.62

From Library Funds

For Lectures	100.00	
For Books	<u>11,513.22</u>	11,613.22

Forward		\$1,692,248.80
---------------	--	----------------

Forward	\$1,692,248.80
---------------	----------------

Expenditures from Income of Funds (continued)

From Special Purposes Funds

For Scholarships.....	\$ 2,600.00	
For Prizes	608.60	
For Lectures	581.78	
For Books & Library	165.00	
For Religious Education Comm.	200.00	
For Trees & Plants	1,012.67	
For Strawbridge Observatory.....	768.60	
For Work Camp.....	266.18	
For Physical Education	75.00	\$ 6,277.83

From Augustus Taber Murray Research Scholarship Fund

For Annuities	980.00
---------------------	--------

Expenditures from Wm. Pyle Philips Fund—Special

Visitors	\$ 32,761.65	
Books & Library	19,177.88	
Miscellaneous	9,290.11	61,229.64

Expenditures from Donations other than Funds

For Scholarships.....	\$ 37,509.25	
For Music	1,006.73	
For Cricket	\$ 286.15	
For Books & Library	2,136.54	2,422.69
For Prizes	150.00	
For Loans	818.00	968.00

For Special Purposes:

Albert Schweitzer Plaque	\$ 175.00	
Thomas Mann Celebration	2,890.72	
Publishing Lectures	969.28	
Field House expenses	1,231.53	
Faculty Research Fund	2,500.00	
Library Replacement	2,500.00	
Freund Project	2,579.46	
Arts of U. S.	2,000.00	
Sundries	7,695.78	
Equipment of Educational Dept:		
Physics	1,228.34	
Chemistry.....	2,653.23	
Biology.....	7,086.21	
Mathematics	105.65	33,615.20

For Non-Western Studies:

Lectures	300.16	
For special travel lectures.....	752.51	
For Faculty research.....	500.00	
For Faculty summer study	3,526.15	
For Class of 1934 Loan Fund	10,122.83	
For Class of 1909 Gift to College	1,735.00	
For Class of 1933 Gift to College	1,505.00	
For Class of 1935 Gift to College	7.05	18,448.70

For General Purposes	15,300.00
----------------------------	-----------

For Faculty Projects:

Santer	24,494.23	
Loewy	11,541.61	
Finger	10,104.93	
Finger & Santer	1,264.90	
	\$ 47,405.67	

Forward	\$1,760,736.27
---------------	----------------

Forward \$1,760,736.27

Expenditures from Donations other than Funds (continued)

For Faculty Projects: (continued)	\$ 47,405.67	
Green	\$ 7,430.18	
Williams	5,375.11	
Dunathan	1,441.51	
Heath	1,495.09	
Selove	10,532.70	
Overhead of College	10,002.55	\$ 83,682.81

For Undergraduate Research	6,638.53	
For Research on Public Affairs	992.44	
For Alumni Assn. Salaries	6,379.00	

For Support of Alumni Assn.	\$ 16,264.87	
For Class of 1958 Gift to Library	300.00	
For Transfer of Triangle Society Gift to Funds	370.44	16,935.31

For Development:

Consultant, architect & Miscellaneous	31,078.73	
---	-----------	--

Faculty Research Fund

Paid for various projects	9,090.62	
---------------------------------	----------	--

Medical Reimbursement Plan

Benefits paid	2,335.39	
---------------------	----------	--

Non-Faculty Pensions

Pensions paid	4,867.32	271,270.72
---------------------	----------	------------

Income transferred to Principal

(see receipts for items)	10,571.36	
--------------------------------	-----------	--

Miscellaneous Items to Balance Accounts

Library Replacements	\$ 4,066.69	
Skating Pond — Operations & Improvements	810.08	
Taxes Withheld — Paid	174,959.89	
Sales Tax Paid	2,582.68	
In & Out	2,485.59	
Work in Progress	4,861.80	
Student Store Expenses	21,505.26	
New Loans	1,000.00	
Bookstore Purchases & Operations	69,631.61	
Accts. Receivable from Students — Charges	1,015,706.10	
Accts. Receivable from Others — Charges	69,757.65	
Accts. Receivable from U.S. Govt. — Charges	22,306.23	
Wm. Maul Measey Trust — Student Aid Applied	36,500.00	
Treasurer's In & Out — Transferred to Proper Accounts	426.16	
Over & Short	228.83	1,426,829.57

Items Relating to Other Fiscal Years

Advance Receipts — Applied	\$ 16,747.51	
Rooms Paid in Advance — Applied	5,765.19	
Expenses for Following Years — Applied	71,771.23	
Prepaid Insurance	39,346.06	
Accounts Payable	53,730.12	
Inventories	12,803.41	200,163.52

Forward \$3,669,571.44

Forward			\$3,669,571.44
<u>Investments made or Donated</u>			
<u>Consolidated Investments</u>			
Bonds — Industrial	\$ 190,000.00		
Public Utility.....	50,000.00		
Railroad.....	11,357.65		
Inst. of the Govt.....	200,031.25		
Foreign	97,000.00		
Preferred Stock — Industrial.....	16,199.00		
Common Stock — Banks & Insurance	70,928.21		
Industrial.....	125,946.51		
Public Utility.....	54,089.56		
Railroad	60,988.17		
Mortgages	38,000.00		
College Real Estate	18,366.41		
Miscellaneous	14,094.80	\$ 947,001.56	
<u>Non-Consolidated Investments</u>			
<u>Wm. Pyle Philips Investments</u>			
Bonds — Industrial	\$ 36,558.00		
Public Utility.....	25,432.25		
Foreign	85,000.00		
Common Stock — Industrial	132,860.42		
Public Utility.....	58,191.92	\$ 338,042.59	
A. T. Murraray Research Scholarship Fund		\$ 567.50	
Walter R. Faries Scholarship Fund		40,300.00	\$1,325,911.65
<u>Balances August 31, 1960</u>			
Treasurer's Account	\$ 8,186.69		
President's Account	35,429.65		43,616.34
TOTAL EXPENDITURES			<u>\$5,039,099.43</u>

REPORT NO. 34 OF "LOAN FUND"
ESTABLISHED IN 1926

Cash balance on hand August 31, 1959	\$ 4,742.44
5 Loans repaid during the year	1,380.25
4 Partial payments on loans during year	542.06
Interest received during the year	216.25
	<u>\$ 6,881.00</u>

9 Loans made during year	\$ 3,502.30
Cash on hand on August 31, 1960	3,378.70
Loans outstanding August 31, 1960	23,081.61
Interest outstanding August 31, 1960	1,707.65
	<u>\$ 28,167.96</u>

Totals to August 31, 1960

Gifts and Donations	\$ 28,131.14
464 Loans repaid	76,777.84
614 Payments on loans	30,664.14
Interest paid up	18,669.25
Other Sundry Collections	50.02
Advance received from Corporation of Haverford College	5,000.00
	<u>\$159,292.39</u>

Repayments of Gifts and Donations	\$ 21,707.75
Loss on funds and Merion Title & Trust Co.	582.01
Expenses	254.54
Loans granted	133,369.39
	<u>155,913.69</u>

Cash balance on hand August 31, 1960	3,378.70
Outstanding interest to August 31, 1960	1,707.65
Outstanding loans to August 31, 1960	23,081.61
	<u>\$ 28,167.96</u>

Report No. 1 of Loan Fund For Freshmen
Established in 1959 by the Class of 1934

REVOLVING LOAN ACCOUNT

Both principal and income of the class of 1934 Revolving Loan Account and all moneys added thereto by gifts or otherwise, shall, except in the contingencies named below, be used for loans for deserving undergraduates attending Haverford College (the College) who fulfill the standards of scholarship and character required for admission, but lack the financial means to pay for tuition, board, lodging and other college expenses.

The recipients of loans from this account shall be selected by the College Administration, with preference being given to incoming freshmen. The main consideration in the granting of loans shall be the need of the recipient, rather than academic attainment, provided that minimum scholarship requirements are fulfilled.

The rate or rates of interest to be charged on loans and the collection policy adopted shall be determined at the discretion of the College Administration.

It is requested that the College make reasonable efforts to collect loans from this Account, provided that undue hardship is not caused the recipient.

This account may be increased by new gifts. Moneys received as payment of interest and principal on loans from this account, shall be added thereto.

If the College Administration in its discretion, finds that the need for the Loan Account has ceased to exist because of the availability of public loans or grants for such purposes, or for other reasons the Administration may use the income and principal of this account for scholarships or for other purposes which the Board of Managers shall determine are beneficial to the College.

Cash balance on hand on August 31, 1960	\$ 10,122.83
No loans made during the year	00
	<u>\$ 10,122.83</u>

Total to August 31, 1960

Gifts and Donations	<u>\$ 10,122.83</u>
---------------------------	---------------------

DONATIONS FOR ADDITIONS TO FUNDS

GENERAL ENDOWMENT FUND

Legacy of Herbert S. Langfeld 1901	\$1,000.00	
Legacy of Jeannette K. Holmes	1,000.00	
Bequest of Ruth M. Walter	2,500.00	\$ 4,500.00

CLASS OF 1933-25th ANNIVERSARY FUND

Gift of: John W. Hazard	\$ 25.00	
Elmer E. Craig.....	200.00	
Haverford College (add'l. gifts).....	150.00	375.00

ARCHIBALD MACINTOSH ENDOWMENT FUND

Gift of: Dr. Gilbert H. Marquardt		500.00
---	--	--------

THE WILLIAM H. COLLINS FUND (NEW)

Cash and securities received from the Estate of Julia Cope Collins		179,610.45
--	--	------------

MARY FRANCES NUNNS FUND (NEW)

Legacy of Mary Frances Nunns		25,000.00
------------------------------------	--	-----------

LOUIS JAQUETTE PALMER SCHOLARSHIP FUND

Gift of: Triangle Society	702.50	
Legacy of Mary H. Thomas.....	500.00	
Transferred from Donations Account (Triangle Society)	370.44	1,572.94

CLASS OF 1917 SCHOLARSHIP FUND

Received from John W. Spaeth, Jr.		21.00
--	--	-------

THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND

Additional gift		1,000.00
-----------------------	--	----------

W. LA COSTE NEILSON SCHOLARSHIP FUND

Received from Tempelsman Foundation		650.00
---	--	--------

RUFUS MATTHEW JONES SCHOLARSHIP FUND (NEW)

(Transferred gifts of Clarence E. Tobias, Jr. of \$1,000 from 1949 Campaign Scholarship Fund to this fund.)		
Additional gift of Clarence E. Tobias, Jr.		500.00

CLASS OF 1909 RUFUS M. JONES MEMORIAL LIBRARY FUND (NEW)

Gifts of the Class of 1909		1,485.00
----------------------------------	--	----------

EDWARD WOOLMAN ARBORETUM FUND

Bequest of Edward Woolman		5,000.00
---------------------------------	--	----------

JOHN G. WALLACE AWARD FUND

Gift of: John G. Wallace		100.00
--------------------------------	--	--------

TOTAL DONATIONS FOR ADDITIONS TO FUNDS \$220,314.39

THE FRIENDS OF MUSIC AT HAVERFORD

<u>Name</u>	<u>Amount</u>	<u>Name</u>	<u>Amount</u>
Miss Janet M. Agnew	\$ 2.50	Mr. Jacques Maries	\$ 5.00
Mr. Edward P. Alexander	10.00	Mr. Thomas W. McMaster	10.00
Mrs. Charles M. Bartler	5.00	Miss Alice McMurtrie	10.00
Mrs. T. A. Benham	2.50	Mr. E. A. Mennis	2.50
Mr. Aldon D. Bell	5.00	Mr. Charles Mitchell	2.50
Mr. and Mrs. Edwin B. Benjamin	5.00	Mr. and Mrs. Stafford H. Newhall	5.00
Mr. L. Joe Berry	5.00	Mr. Robert Scott Noone	10.00
Mrs. John H. Bertolet	5.00	Miss Mildred Northrop	2.50
Mrs. Sydney C. Biddle	5.00	Mrs. William A. Obdyke	5.00
Mrs. Gladys L. Bernheimer	5.00	Miss Mary Parsons	2.50
Mrs. Carol Biba	2.50	Mr. and Mrs. Harry W. Pfund	5.00
Miss Eleanor A. Bliss	10.00	Mr. L. Arnold Post	2.50
Mrs. Hugh Borton	10.00	Mrs. George Putnam	2.50
Mrs. D. Carey	2.50	Mrs. Claude Rains	5.00
Mrs. Edytha M. Carr	2.50	Mrs. Richard Recknagel	5.00
Mrs. R. L. Cary	5.00	Miss Marian Reed	5.00
Mrs. Gertrude Caspar	2.50	Mr. William Reese	5.00
Mr. and Mrs. George K. Chandler	5.00	Mr. and Mrs. Ira DeA. Reid	5.00
Mr. Forrest D. Comfort	5.00	Mr. and Mrs. John F. Rich	10.00
Mr. Howard Comfort	5.00	Miss Caroline Robbins	10.00
Mr. James A. Crawford	5.00	Mr. Edgar Smith Rose	5.00
Mr. and Mrs. F. Cunningham, Jr.	5.00	Mr. Douglas D. Royal	2.50
Miss Elinor E. Curwen	5.00	Dr. and Mrs. C. F. Sackett	5.00
Mr. John Davison	2.50	Dr. and Mrs. Lewis C. Scheffey	10.00
Mr. and Mrs. Henry S. Drinker	50.00	Mrs. L. R. Scoville	5.00
Mathew B. Ehrlich	5.00	Mrs. Lawrence M. Siever	5.00
Gertrude Ely	15.00	Mr. John S. Sharpe	5.00
Woodruff J. Emlen	5.00	Mrs. H. S. Shaw	10.00
Mrs. McClure Fahnestock	2.50	Miss Mary C. Smith	5.00
Clare Ray Ford	5.00	Mr. Edward D. Snyder	2.50
Dr. Robert E. Forster	2.50	Mr. and Mrs. Alex C. Soper	5.00
Mr. Martin Foss	2.50	Mr. and Mrs. Hugh Spencer	5.00
Mrs. S. F. Fuller	5.00	Miss Mary H. Steen	2.50
Miss Georgette Galland	2.50	Miss Margaret H. Steen	2.50
Mrs. George L. Garland	5.00	Mrs. J. Stodgell Stokes	5.00
Mrs. Haskell Garson	5.00	Dr. S. Emlen Stokes	10.00
Mr. and Mrs. R. L. Goodale	5.00	Miss Lucy Sutton	2.50
Mrs. Louis C. Green	5.00	Mrs. F. J. Talone	2.50
Miss Cynthia Griffin	5.00	Mrs. Howard M. Teaf, Jr.	2.50
Owen E. Grimm	5.00	Mrs. Arthur H. Thomas	5.00
Miss Gladys Griscom	5.00	Miss Carol H. Thomas	5.00
Miss Ethel Hastings	5.00	Miss Helen Norris Tuttle	2.50
Miss Alice Martin Hawkins	2.50	Mrs. G. Wilbur Ufford	5.00
Mrs. Nathan Haward	5.00	Mrs. Harold Van Doren	5.00
Mr. Hanford W. Henderson	5.00	Mr. John Van Hulsteyn	5.00
Mrs. Charles J. Hepburn, Jr.	5.00	Mrs. R. R. Van Alkenburgh	2.50
Mrs. Clayton Holmes	2.50	Mrs. George Vaux	7.50
Dr. Robert W. Hopkins	10.00	Mr. Adolph Vogel	15.00
Mr. Holland Hunter	10.00	Miss Jane Walker	2.50
Mrs. William M. Kift	5.00	Mr. Robert I. Walter	5.00
Mrs. Patricia G. Knapp	2.50	Mrs. William White	5.00
Mrs. Herbert Koslow	7.50	Mrs. F. Earl Williams	2.50
Miss Marija K. Krasauskas	2.50	Mr. E. Justice Williams	5.00
Mr. and Mrs. G. M. Langley Smith	5.00	Miss Dorothy Wire	5.00
Miss Alice Lattimore	5.00	Mr. Owen J. Wister	20.00
Mrs. Lewis	2.50	Mrs. Raymond D. B. Wright	2.50
Mrs. William Lingelbach	5.00	Anonymous	25.00
Mr. and Mrs. Dean P. Lockwood	5.00		
Mrs. Frederick Manning	5.00		
		Total	<u>\$665.00</u>

CONTRIBUTORS TO THE "LIBRARY ASSOCIATES"

<u>Name</u>	<u>Amount</u>	<u>Name</u>	<u>Amount</u>
Mr. and Mrs. Charles D. Abbott	\$ 10.00	Mrs. John V. Hastings	\$ 5.00
Miss Ann C. Almy	2.00	Mr. and Mrs. John V. Hastings, 3rd.....	2.00
Mr. and Mrs. David W. Amran, Jr.	3.00	Mrs. Lester C. Haworth	2.00
Mr. and Mrs. Geo. F. B. Appel.....	2.00	Mr. and Mrs. Roy A. Helton.....	2.00
Dr. and Mrs. K. E. Appel	15.00	Mrs. John G. Herndon.....	2.00
Mr. and Mr. Walter Baker	5.00	Mr. and Mrs. Harrison S. Hires	25.00
Mrs. Robert Montgomery Bird	3.00	Mr. and Mrs. William L. Hires.....	5.00
Mr. and Mrs. Paul Bleyden	5.00	Mr. and Mrs. Howard J. Hogenauer	25.00
Mr. and Mrs. Hugh Borton.....	10.00	Mr. and Mrs. Allen F. Horton	5.00
Mr. and Mrs. Harold W. Brecht.....	2.00	Mr. and Mrs. Holland Hunter	2.00
Mr. Benjamin S. Brown	24.00	Mr. and Mrs. J. Barclay Jones	5.00
Mr. and Mrs. Carroll T. Brown.....	5.00	Miss Mary Hoxie Jones.....	2.00
Mr. and Mrs. Henry J. Cadbury.....	2.00	Miss Miriam E. Jones.....	2.00
Mr. and Mrs. William E. Cadbury.....	3.00	Mr. and Mrs. John D. Kenderdine	5.00
Mrs. John H. Carter	2.00	Mr. and Mrs. George A. Kennedy	2.00
Mrs. Richard L. Cary.....	2.00	Mrs. William M. Kift	3.00
Mr. and Mrs. Aldo Caselli.....	5.00	Dr. and Mrs. John M. Kimmich.....	5.00
Mr. and Mrs. George K. Chandler.....	4.00	Mr. and Mrs. M. Alexander Laverty	4.00
Mr. and Mrs. Henry Clifford.....	50.00	Mr. and Mrs. Aaron Lemonick.....	2.00
Dr. and Mrs. J. Howard Cloud	4.00	Mrs. Arthur Leverkus	4.00
Mr. and Mrs. Hayward H. Coburn.....	5.00	Mr. and Mrs. M. Albert Linton	10.00
Mr. and Mrs. Howard Comfort	2.00	Mr. and Mrs. Robert A. Locke	10.00
Miss Margaret Conklin	10.00	Mr. and Mrs. Dean P. Lockwood.....	2.00
Mr. and Mrs. O. L. Coward	4.00	Mr. and Mrs. Arthur B. Loder.....	5.00
Mr. and Mrs. James A. Crawford	2.00	Mrs. John Henry Longmaid	3.00
Mr. and Mrs. Carlton Cressman	4.00	Mr. James P. Magill.....	50.00
Dr. and Mrs. David M. Davis.....	5.00	Mr. and Mrs. William M. Maier	5.00
Mr. John H. Davison	2.00	Miss Belle Matheson	5.00
Miss Meribah C. Delaplane	10.00	Mr. and Mrs. Wallace T. MacCaffrey.....	15.00
Mr. and Mrs. Wm. B. Dickinson	7.00	Miss Beatrice MacGeorge.....	10.00
Mr. and Mrs. Thomas E. Drake.....	10.00	Mr. and Mrs. Archibald MacIntosh	2.00
Mr. and Mrs. Henry S. Drinker	10.00	Mrs. Joseph B. McCall	5.00
Mr. Edward W. Evans.....	6.00	Dr. and Mrs. Stuart Mudd.....	2.00
Mr. and Mrs. Harold Evans.....	5.00	Mr. Clarence N. Myers	2.00
Mrs. McClure Fahnestock	5.00	Miss Caroline Newton	5.00
Dr. and Mrs. Clifford B. Farr	2.00	Mrs. Carroll B. Nichols.....	3.00
Mr. John W. Flight	2.00	Dr. and Mrs. Jesse T. Nicholson	10.00
Miss Kathryn V. Forrest	2.00	Mr. and Mrs. Robert Scott Noone	10.00
Mrs. Corinne Friend	4.00	Mr. and Mrs. Paul W. Ohl.....	5.00
Mrs. Sara K. Fuller.....	2.00	Mr. and Mrs. Raymond T. Ohl.....	5.00
Mrs. J. Holcombe Genung	5.00	Miss Mary Parsons	2.00
Mr. and Mrs. Douglas W. Gould.....	5.00	Mr. and Mrs. Charles Perry	2.00
Miss Gladys H. Griscom.....	10.00	Mr. and Mrs. Harry W. Pfund	4.00
Mr. and Mrs. John F. Gummere.....	6.00	Mr. and Mrs. Clarence E. Pickett	3.00
Mr. and Mrs. Richard M. Gummere	2.00	Mr. and Mrs. L. Arnold Post.....	5.00
Mr. and Mrs. Edward Haack	10.00	Miss Ida W. Pritchett	10.00
Miss Ethel Hastings	10.00		

Forward \$604.00

CONTRIBUTORS TO THE "LIBRARY ASSOCIATES" (continued)

<u>Name</u>	<u>Amount</u>	<u>Name</u>	<u>Amount</u>
	Forward \$604.00	Mr. Hugh E. Stone.....	\$ 10.00
Mrs. Conyers Read	5.00	Miss Gertrude Stout.....	5.00
Mr. and Mrs. G. R. Rebmann, Jr.	5.00	Mr. and Mrs. Philip S. Sweetser.....	5.00
Mr. and Mrs. Layton B. Register	5.00	Mr. and Mrs. Allen M. Terrell	5.00
Mr. and Mrs. William A. Reitzel.....	4.00	Miss Frances W. Terry	2.00
Dr. and Mrs. Jonathan E. Rhoads.....	10.00	Mrs. Arthur H. Thomas.....	5.00
Mr. and Mrs. John F. Rich	10.00	Miss Carol H. Thomas	5.00
Mr. Charles S. Ristine	5.00	Dr. and Mrs. Henry M. Thomas, Jr.	2.00
Mr. and Mrs. Leon H. Rittenhouse	2.00	Miss Marjorie L. Thompson	20.00
Mrs. John M. Rusby.....	2.00	Mr. and Mrs. Reynolds Tildon	2.00
Mr. and Mrs. William P. Sadler	10.00	Dr. and Mrs. Owen Jones Toland	2.00
Mr. and Mrs. Ralph M. Sargent	5.00	Mr. Albert C. Tyler	10.00
Dr. and Mrs. Lewis C. Scheffey.....	10.00	Mrs. Frank D. Watson	2.00
Miss H. Louise Searle.....	2.00	Mr. and Mrs. W. Nelson West, 3rd	5.00
Dr. and Mrs. Frederick C. Sharpless.....	2.00	Mr. and Mrs. Gilbert F. White	3.00
Mr. and Mrs. Thos. Kite Sharpless.....	5.00	Mrs. Margaret Whitney.....	2.00
Mrs. Herman S. Shaw	2.00	Mr. and Mrs. F. Earl Williams.....	4.00
Mr. Lucius R. Shero	5.00	Mr. H. Justice Williams	2.00
Miss Mary C. Smith.....	5.00	Miss Elizabeth A. Williamson.....	2.00
Mrs. Earnshaw Smythe	2.00	Mr. and Mrs. D. Wright Wilson.....	2.00
Mr. and Mrs. Edward D. Snyder	2.50	Miss Rebecca B. Wistar	5.00
Mr. Freas B. Snyder.....	2.00	Mr. Thomas Wistar.....	5.00
Mr. and Mrs. Herman M. Somers	2.00	Mr. Enos E. Witmer.....	2.50
Mr. and Mrs. Arthur E. Spellissy	10.00	Mr. and Mrs. Edward Woolman	<u>10.00</u>
Mrs. William C. Stadie.....	2.50		Total <u>\$836.50</u>

CONTRIBUTORS TO ANNIVERSARY GIFTS

Class of 1909

Anonymous	
R. Newton Brey	
James W. Crowell	
Dr. Percival B. Fay	
William S. Febiger	
Paul C. Kitchen	
Sidney Loewenstein	
Howard M. Lutz	
Charles G. Martinson	
Paul Van Reed Miller	
Richard H. Mott	
Joseph W. Pennypacker	
Dr. Robert L. M. Underhill	
W. W. Warner	\$1,400.00

Class of 1935 (continued)

Meredith B. Colket	
Woodruff J. Emlen	
Ernest M. Evans, M. D.	
Sidney Hollander, Jr.	
Robert F. Hunsicker	
E. Charles Kunkle	
Jerome H. Lentz	
Dr. E. Wayne Marshall, Jr.	
Edward J. Matlack	
John B. Rhoads	
Russell W. Richie	
Graham Rohrer	
Rowland G. Skinner	
Martin P. Snyder	
William H. Tatem	
Alexander C. Wood, III	\$2,929.38

Class of 1933

DuRelle Gage	
Frederick Van Denbergh	150.00

Class of 1936

George B. Bookman	
Robert Braucher	
David C. Elkinton	
Francis C. Evans	
Robert S. Gawthrop, Jr.	
John N. Goodridge	
Park Hays Miller, Jr.	
Charles Perry	
Joseph D. Purvis, Jr.	
Joseph H. Taylor	
Henry L. Tomkinson	
Allen W. Stokes	
Gain on Securities	3,283.59

Class of 1934

Charles M. Bancroft, M. D.	
Eugene F. Hogenauer	
Gerard Holzrichter	
Ray B. Houston	
David G. Loomis	
Arthur G. Singer, Jr., M. D.	
Joseph M. Bertotti	590.00

Class of 1935

William L. Azpell, Jr.	
Dr. David H. Bates	
Clifton M. Bockstoe	
Paul W. Brown, Jr.	
Frank B. Burnside	
B. Bartram Cadbury	

Class of 1937

Hans B. Engelmann	
Class of 1937 25th Anniversary	
Gift Fund	15.00

Total \$8,367.97

CONTRIBUTORS TO THE GEORGE TAI SCHOLARSHIP

<u>Name</u>	<u>Amount</u>	<u>Name</u>	<u>Amount</u>
Dean Carpenter	\$ 50.00	John F. Rich	\$150.00
Meade Cauffiel	75.00	Lawrence N. Taylor.....	25.00
George L. Fite	20.00	W. Wycliff Watson	50.00
Charles H. Frazier	50.00	William Nelson West, III	50.00
Harold D. Greenwell	50.00	Donald Wilbur	50.00
Gaylord P. Harnwell	50.00		
Philip G. Rhoads	50.00		
		Total	<u>\$670.00</u>

SPECIAL DONATIONS — GENERAL PURPOSE

<u>1892</u>	Walter Morris Hart Stanley R. Yarnall	\$1, 150.00	S. Percy Jones William C. Longstreth Percival Nicholson Robert J. Ross John L. Stone Charles W. Stork Edgar E. Trout	\$ 863.75	<u>1907</u> Karl J. Barr Richard Cadbury Walter L. Croll Harold Evans Samuel J. Gummere Wilbur H. Haines Lee E. Hood Ernest F. Jones James P. Magill Alfred B. Mortin Jose Padin Emmett R. Tatnall C. Clayton Terrell W. Butler Windle	\$1,450.13
<u>1893</u>	Clarence G. Hoag Barton Sensenig Edward Woolman	\$ 120.00	<u>1903</u> Henry J. Cadbury James B. Drinker Hervey M. Hoskins Cadwalader W. Kelsey I. Sheldon Tilney Howard M. Trueblood	\$ 145.00	<u>1908</u> Carroll T. Brown Dudley D. Carroll J. Browning Clement, Jr. Thomas C. Desmond Edward A. Edwards J. Passmore Elkinton J. Jarden Guenther Thomas R. Hill W. Wesley Kurtz M. Albert Linton T. Morris Longstreth W. Haviland Morriss Loren C. Petry Charles H. Rogers Winthrop Sargent, Jr. Walter Rodman Shoemaker Wilson Sidewell Walter W. Whitson Raymond C. Woodard	\$ 830.00
<u>1894</u>	Henry S. Conard Dr. Clifford B. Farr	\$ 45.00	<u>1904</u> Howard H. Brinton Daniel L. Burgess John W. Charles Arthur Crowell Chester R. Haig George K. Helbert William M. C. Kimber Bernard Lester C. Christopher Morris Harold H. Morris C. Raymond Owen Wilfred M. Powell Harold M. Shabacker James M. Stokes John R. Thomas H. Norman Thorn E. Porter West Samuel C. Withers	\$1,520.00	<u>1909</u> J. Warrington Stokes	\$ 50.00
<u>1896</u>	John A. Lester, Senior	\$ 20.00	<u>1897</u> Thomas M. Chalfant The Rev. Elliot Field Wager Fisher Charles H. Howson William G. Rhoads Edward Thomas	\$ 187.00	<u>1910</u> E. Page Allinson Lawrence H. Barrett Earlham Bryant Earl S. Cadbury Donald B. Cary H. Ernest Crow Edward W. David E. Nelson Edwards Ralph R. Eltze Rodney M. Eshleman Harold A. Furness William C. Greene Carroll A. Haines anonymous John D. Kenderdine George A. Kerbaugh Charles M. Leininger Henry Carville Lewis Walter Palmer John Phillips Charles S. Ristine Alfred S. Roberts Walter D. Shultz Willard P. Tomlinson William L. G. Williams Eugene R. Zieber	\$6,877.74
<u>1897</u>	Vincent Gilpin S. Rowland Morgan Frederick Stadelman Francis R. Strawbridge Robert N. Wilson Thomas Wistar	\$ 545.00	<u>1898</u> William A. Battey Edward H. Lycett, Jr. Joseph Paul Morris Louis R. Wilson	\$ 580.00	<u>1900</u> Charles J. Allen Francis R. Cope Henry S. Drinker Frank M. Eshleman Dr. Frederic C. Sharpless Heber Sensenig Abram G. Tatnall Edward B. Taylor, Jr.	\$ 497.00
<u>1899</u>	William A. Battey Edward H. Lycett, Jr. Joseph Paul Morris Louis R. Wilson	\$ 580.00	<u>1905</u> Thomas M. Bales Sydney M. Boher Charles S. Bushnell Harold H. Cookman Henry G. Cox Benjamin Eshleman Arthur H. Hopkins Paul Jones Ralph G. Libby Glyndon Priestman Elias Ritts Sigmund Spaeth Herman K. Stein Chester J. Teller Howard P. Thomas Edwards F. Winslow	\$ 780.00	<u>1901</u> Ellis Y. Brown, Jr Howard V. Bullinger William E. Cadbury Clifton C. Carey Lovett Dewees, M. D. J. Leiper Winslow	\$ 105.00
<u>1900</u>	Charles J. Allen Francis R. Cope Henry S. Drinker Frank M. Eshleman Dr. Frederic C. Sharpless Heber Sensenig Abram G. Tatnall Edward B. Taylor, Jr.	\$ 497.00	<u>1906</u> Walter Carson Thomas Crowell Gordon H. Graves Thomas P. Harvey Jackson Maloney Francis B. Morris Albert K. Smiley John A. Stratton Joseph J. Tunney Walter A. Young	\$ 480.00		

1911

Daniel B. Boyer
John S. Bradway
Philip B. Deane
William D. Hartshorne, Jr.
L. Arnold Post
Joseph H. Price
D. Duer Reynolds
Victor Schoepperle
Lucius R. Shero
Dr. Gibson Smith
Howard G. Taylor, Jr.
Charles Wadsworth
Caleb Winslow

\$ 576.41

John K. Garrigues
Edward Morris Jones
Harold M. Lane
Robert A. Locke
Harold S. Miller
Douglas L. Parker
Baxter K. Richardson
Herbert W. Seckel
Robert C. Smith
Francis C. Stokes
S. Emlen Stokes
John A. Stout
Leonard V. H. Thomas
Thomas Tomlinson
Charles K. Trueblood
Charles R. Williams

\$4,869.02

Loring Dam
Jesse G. Forsythe
Wm. J. Gardiner
Joseph W. Greene, Jr.
Albert W. Hall
Weston Howland
H. Lawrence Jones
M. Alexander Laverty
Hugh McKinstry
Arthur Napier
Newlin F. Paxson
Edmund T. Price
Carl M. Sangree
Wendell D. Schoch
John W. Spaeth, Jr.
Arthur E. Spellissy
J. Clayton Strawbridge
Harold Q. York
John W. Zerega

\$1,312.00

1912

Albert L. Baily, Jr.
Joshua L. Baily, Jr.
Mark Balderston
Stacey K. Beebe
Albertus L. Biedenbach
Douglas P. Falconer
Leslie W. Ferris
Hans Froelicher, Jr.
Herbert M. Lowry
Robert E. Miller
Charles T. Moon
Sydney S. Morris
J. Hollowell Parker
Irvin C. Poley
Kenneth A. Rhoad
Leonard C. Ritts
Thomas E. Shipley
Lloyd M. Smith
Samuel B. Sturgis, M.D.
Henry M. Thomas, Jr.
Edward Wallerstein

\$1,191.00

1915

Percival R. Allen
Edgar M. Bowman
Edgar C. Bye
G. Cheston Carey
E. Newton Crosman
Cyrus Falconer
George H. Hallett, Jr.
Dr. Andrew Harvey
Harold W. Helveston
Thomas Hoopes, Jr.
Hubert A. Howson
LeRoy Locke
Joseph McNeill
Felix Morley
Elmer L. Shaffer
W. Elwood Vail
Donald B. Van Hollen
Ernest N. Votow
William A. White

\$ 735.00

1918

John W. Alexander
Harrison H. Arnold
Robert Barrie, Jr.
J. Henry Beeson
Herbert H. Bell
Bennett S. Cooper
J. Marshall Crosman
Stephen Curtis
Frank Deacon
Alan H. Dewees
Neil Gilmour
Robert B. Greer
Henry M. Hallett
William H. Harding
Lewis E. Hartman
Joseph M. Hayman, Jr.
J. Alan Hisey
John W. Kendall
Malcolm D. Kerbaugh
Henry W. Koons
Jacques Le Clerq
Louis C. O. Lusson
William M. Mussetter
Herbert J. Painter
Edward A. G. Porter
Harry P. Schenck
Joseph W. Sharp
Morris S. Shipley
Oliver P. Tatum
John W. Thacher
P. S. Thornton
Albert H. Tomlinson
Alfred J. Townsend

\$1,097.00

1913

Joseph M. Beatty
Paul H. Brown
William S. Crowder
Frederick A. Curtis
Francis H. Diamond
William Y. Hare
Charles E. Hires, Jr.
Stephen W. Meader
George Montgomery
Herbert V. Nicholson
Oliver M. Porter
Frederick P. Stieff
L. Ralston Thomas
John V. VanSickle
William Webb
N. McDonald Wilder
George L. Winslow

\$ 663.00

1916

Ralph V. Bangham
Frederick C. Buffum
Frank W. Cary
J. Arthur Cooper
George A. Dunlap
James S. Ellison
Walter R. Faries
Albert G. Garrigues
William T. Hannum
Lawrence G. Heaton
Perry A. Hunter
H. Alden Johnson
Raymond C. Kendig
John Kuhns
Philip L. Leidy
John G. Love, Jr.
Edward Lukens, Jr.
J. Sidney Marine
William L. Martwick
Edward R. Moon
Charles H. Oberholtzer
Joseph Stokes, Jr.
Joseph D. Wood
Raymond L. Woodbridge

\$1,323.00

1914

Anonymous
H. Ernest Bell
Jules S. Bentley
Walter G. Bowerman
Carroll D. Champlin
Leonard deSabran
George V. Downing
C. Willia Edgerton
Alfred W. Elkinton
Thomas W. Elkinton
Lewis J. Finestone

1917

Ernest L. Brown
J. Howard Buzby
Wm. Henry Chamberlin
Donald Chandler

1919

Sir John Barlow
Hudson Chapman
Philip L. Corson
Thomas P. Dunn
Francis Goodhue, III
Edgar B. Graves
John S. Haynes
George H. Hubler
Stewart Huston
Thomas McConnell, III
Ralph F. S. Moock
A. Douglas Oliver
J. Evan Philips
Walter Penn Shipley, Jr.

Frederic H. Strawbridge, Jr. Hamilton D. Taylor Cleaver S. Thomas Elmer H. Thorpe		Chauncey G. Paxson Foster N. Perry Harry Pfund William L. Rhoads, James E. Sidel Richard M. Sutton Edward A. Taylor Kenneth B. Walton J. Colvin Wright Edwin W. Zerrer		W. Nelson West Donald E. Wilbur Horatio C. Wood	\$2,005.00	
	\$ 963.00					
<u>1920</u> Truxtun R. Bradhead Frank L. Campbell Paul C. Crowther J. Branson Edmonds J. Russel Fitts Edwin O. Geckeler Frank T. Gucker Pierson P. Harris Milton A. Kamsler Thomas H. Kearney A. Douglas Knowlton Charles E. Phelps Edward L. Smith, Jr. Granville E. Toogood John S. Williams Richard R. Wood Granville Worrell, II		<u>1923</u> Russel G. Allen John C. Borton H. Tatnall Brown, Jr. Hal G. Farrar Frank P. Flint Frank S. Flowers Gilbert C. Fry G. Randle Grimes E. Kenneth Haviland C. Dixon Heyer Garrett S. Hoag William C. Hunsicker, Jr. Wilmot R. Jones S. Brooks Knowlton Robert W. Leeds Andrew L. Lewis Loyal D. Martin Marriott C. Morris Thomas S. Mutch Thomas Parke Dudley M. Pruitt Robert Schultz Benjamin H. Shoemaker, III John B. Stevenson Gordon W. Strawbridge Alfred L. Test Wayne M. Wagenseller Robert L. Wain Charles Warner, Jr. Farnham Warriger Nelson A. White Harry L. Wilbur Gerald Wilson	\$ 780.00	<u>1925</u> Conrad Acton Eric G. Ball Robert C. Bates Wray D. Bentley Geoffroy Billo Leigh E. Chadwick Class of 1925 Lyman C. Douglas John C. Eiseman Edward L. Gordy H. Richard Heilman William E. Hinrichs Irving Hollingshead Henry F. House Alfred P. Hulme Philips Johnson Ames Johnston Karl G. Kumm Hugh Montgomery Warren W. Newman Jesse T. Nicholson Chalmers V. A. Pittman Owen B. Rhoads William D. Rogers Albert E. Savage Charles C. Sellers John A. Silver Francis M. Stifler Henry H. Strong Harold B. Taylor Benjamin B. Warfield Austin Wright Harman A. Yerkes		
	\$ 965.00				\$1,484.73	
<u>1921</u> H. Walton Arrowsmith Robert Atkinson Jervis J. Babb Thomas B. Barlow Elliot W. Brown Paul H. Caskey Melvin A. Cawl Peter Donchian Cornell M. Dowlin S. Newcomb Ewan, Jr. George J. Gebauer Edward C. Haines Alan W. Hastings Eugene B. Heilman Herschel C. Henderson John R. Hoopes William T. Jebb J. Barclay Jones John H. Klaren, Jr. Henry W. Kumm Julian S. Long, M.D. John Macadam Archibald MacIntosh John D. Miller Edwin D. Miner Samuel A. Nock Raymond T. Ohl A. Arthur Powell Hubert T. Richardson M. Huyett Sangree C. Wilbur Ufford Benjamin B. Weatherby Bertrand H. Wilbur Robert N. Wood		<u>1924</u> Charles F. Bader Courtland B. Brinton Hugh P. Brinton Dean Carpenter J. Stanton Carson Howard Comfort Charles H. Frazier Harold D. Greenwell Gaylord P. Harnwell Paul R. Haviland John Headly Wesley M. Heilman Howard J. Hogenauer Morris W. Mead Arthur Mullin Harold C. Payne Philip G. Rhoads John F. Rich Leander R. Sadtler En Shui Tai Lawrence N. Taylor Gordon M. Turner W. Wyclif Walton	\$2,116.38	<u>1926</u> Francis H. Ale Schuyler Forbes Baldwin Robert Barry Hugh Borton Alfred R. Buck Alfred Busselle Francis F. Campbell Alexander R. Carman, Jr. Henry C. Evans Allan Gilmour Gerald C. Gross Robert L. Haines Edmund P. Hannum Siddons Harper Dalzell F. Hartman Robert L. Hatcher Harris G. Haviland Wayne G. Jackson J. Dean Joly Victor A. Lamberti Winthrop M. Leeds Benjamin H. Lowry J. Howard Marshall Willard Mead Francis Jay Nock Robert H. Richie Fred Rodell Charles E. Sumwalt Joseph A. Vansant		\$1,111.00
	\$1,634.00					
<u>1922</u> Charles D. Abbott Noel S. Arrowsmith John B. Barker Henry S. Fraser John F. Gummere Richard W. Janney Robert R. Matzke Frederick S. Miller Elliston P. Morris						

1927

Samuel A. Armstrong
Harold E. Bates
M. Ward Bayles
John H. Biddle
Charles A. Clement
Herman E. Compter
Samuel Cook
Allan B. Fay
John E. Forsythe
Albert V. Fowler
John Gott
William O. Grover
John L. Heller
John H. Hoag
William L. G. Lester
I. Wilmer Miller
Paul W. Ohl
George H. Renninger
S. Stansfeld Sargent
William W. Saunders
Watson Scarborough
Arthur W. Silver
W. Burr Totten

\$ 795.00

1928

James W. Alcorn
John C. Beatty
Carl F. Berlinger
William R. Bready, III
Richard C. Bull
Frederick M. Burgess
Leslie A. Cretty
Royal S. Davis
John T. Evans
John O. Fitzsimmons
E. Dean Flint
C. Keeley Fox
W. Addison Fox
A. Burtis Hallock, Jr.
Theodore B. Hetzel
Richard L. Hillier
Allen F. Horton
J. Quincy Hunsicker, III
J. McLain King
Richard T. Lane
John S. McConaghy
Oliver W. Melchior
James E. Mitchell
James M. Moffett
S. Burkhart Morrison
Henry S. Murphey
Alexander L. Nichols
Eric H. Renwick
Jonathan E. Rhoads
Ingram H. Richardson
Louis F. Richter
Charles A. Robinson
J. Cecil Rowe
Osman J. Seeds
Franklin W. Smith
Ellsworth B. Stevens
J. Tyson Stokes
Charles M. Tatum
Herbert F. Taylor
Allen C. Thomas, Jr.
Thomas S. Whiting
Theodore Whittelsey, Jr.
Richard Wistar
John Woll

\$1,985.50

1929

Samuel T. Brinton
Roger C. Brown
Henry J. Chapin
Charles H. Collison
John R. Cooper
Carroll L. Corson
Robert M. Cunningham
F. Curtis Dohan
James G. Downward
Herbert K. Enswoth
Nathan T. Folwell
John P. Fox
George S. Garrett
Charles M. Hamilton
John G. Hartman
Arthur S. Hawthorn
Everett H. Hemphill
George W. Johnson
Kenneth E. Kingham
William S. Lane
Davis D. Lewis
Joseph E. MacNamee
James S. Maier
Alfred Mellor
J. Hamor Michener
Ralph L. Miller
Gerald F. Rorer
J. Clifford Scott
Francis W. Sharpless
Walter Sondheim, Jr.
Robert C. Sullivan
Daniel D. Test
Alexander H. Ware
Harold L. Wilt
F. Howell Wright

\$1,379.50

1930

Bradford S. Abernethy
John L. Blackman, Jr.
B. Franklin Blair
Richardson Blair
Roger L. Bloom
Arthur H. Brinton
James Brown, IV
T. Ward Bruegel
Donald R. Buxton
J. Richard Durham
Willem Ezerman
John T. Feidt
William D. Frazier
John J. Hagedorn
W. Clark Hanna
Alfred T. Hill
John D. Hymes
Joseph W. Martin
William M. Masland
C. Norton Maxfield
Irvin W. McConnell
Charles W. Miller, Jr.
Joseph L. Miller
Brewster H. Morris
J. Howard Morris, Jr.
Theodore H. Morris
Martin Norr
Robert M. Olton
Edward Rosewater
Newman S. Shirk
Daniel Smiley
David K. Spelt
John F. Stone

Frederick W. Swan
Edward G. Taulane, Jr.
George Vaux
Theodore H. Westermann
Wilfred H. Wickersham
Thomas Wistar, Jr.
Thomas O. Wriggins, Jr.

\$1,711.63

1931

J. Bhaskar Appasamy
Henry G. Barnhurst
John W. Blyth
J. Wendell Burger
Thomas E. Burns, Jr.
J. George Butler
William E. Cadbury, Jr.
S. Hall Conn
Alfred R. Crawford
George B. Edgar
F. W. Elliott Farr
Robert L. Farr
Lewis H. Gage
Donald L. Gibson
John T. Golding
John D. Gresimer
Charles M. Henry
James M. Houston
M. Jastrow Levin
William Morris Maier
Adrain S. Mann
Laurman Martin
Richard L. Masland
Raymond E. Maxwell
Arthur J. Meekel
Frederick W. G. Peck
Charles S. Pennypacker
Herbert W. Reisner
Fred MacD. Richardson
Ira Leo Schamberg
E. Allen Schilpp
Harris P. Shane
Phillip Shaw
Rodman Shippen
Edwin A. Speakman
Frank N. Speller
Walter M. Teller
Nathaniel Weyl
John H. Wills
Evan M. Wilson

\$1,394.00

1932

Carl B. Allendoerfer
Walter C. Baker
William F. Brinton
Joseph M. Cadbury
David P. Cordray
Gilbert David
Wallace De Laguna
Walter I. Dothard, Jr.
J. Russell Elkinton
Robert F. Engle, Jr.
Harry Fields
Gifford P. Foley
William T. R. Fox
Herbert S. Gaskill
George Gerenbeck, Jr.
F. Barton Gummere, III
C. Robert Haines
Sydney A. Hunt
William E. Miller

Ellis C. Osgood
 William W. Pusey, III
 Joseph Rhoads
 Harold J. Schramm
 John W. Settle, Jr.
 William V. Sipple, Jr.
 Albert K. Smiley, Jr.
 Dana M. Street
 Charles S. Strickler
 A. Craig Succop
 Rudolf M. Wertime
 John A. Zapp, Jr.

\$1,571.00

1933

James Andrews, Jr.
 Clarence P. Baker
 Edmund A. Carr
 Horace K. Dugdale
 Charles E. Frank
 Luther S. Green, Jr.
 Stephens T. Gulbrandsen
 Patrick H. Hodgkin
 Charles S. Jacobs
 Bernard V. Lentz
 John W. Masland
 John F. McMahon
 Edward A. Moos
 Hugh B. Pickard
 William H. Russell
 John R. Sargent
 Henry W. Scarborough
 Henry Scattergood
 James N. Stanton, Jr.
 Robert C. Thomson, Jr.
 Phillips B. Trenbath
 Philip E. Truex
 Frederick VanDenbergh
 Henry J. Vaux
 Thomas R. White, Jr.

\$ 930.00

1934

Charles M. Bancroft
 Fritz K. Downey
 John Dusseau
 Louis W. Flaccus, Jr.
 Grant V. Frazer
 J. Morton Fultz, Jr.
 Leonard L. Greif, Jr.
 William H. Haines, III
 Ellwood M. Hammaker
 J. O. Hancock
 Edward M. Hendrickson
 Bryan T. Hipple, Jr.
 Hunt B. Jones
 J. Douglas Lockard
 Benjamin S. Loewenstein
 William F. Maxfield
 Richard R. Pleasants
 Philip B. Richardson
 Norman J. Rush
 Henry G. Russell
 Roger Scattergood
 Arthur G. Singer, Jr.
 Bruce D. Smith
 William Wharton Smith
 Willard M. Wright, Jr.

\$ 930.00

1937

William H. Daudt

Bruce H. French
 Charles E. Holzer, Jr.
 Bun-ichi Kagami
 Frank E. Nulsen
 Arthur N. Wrigley

\$ 710.00

1938

Robert M. Bird, Jr.
 John T. Carson, Jr.
 Donald S. Childs, Jr.
 William H. Clark
 Henry B. Cox
 Herbert T. Darlington, Jr.
 Valery S. DeBeausset
 Aubrey C. Dickson
 William Duff
 Charles R. Ebersol
 John A. Evert
 Frederick Firth
 James M. George
 Robert P. Gilbert
 Jonathan Goldmark
 Louis B. Kohn, II
 Amos P. Leib
 Charles H. Ligon
 George B. Mathues
 Leonard F. Norsworthy
 Dikran S. Pakradooni
 Frank M. Ramsey, Jr.
 Clayton E. Ranck
 Lindley B. Reagan
 James L. Rich
 Tillman K. Saylor, Jr.
 Philip R. Shank
 Clyde H. Slease
 Charles F. Sponsler, Jr.
 Jonathan M. Steere, Jr.
 Hubert R. Taylor
 Irving Telling
 Robert J. Thompson, Jr.
 Louis J. Velte
 William M. Webb
 E. Hambleton Welbourn, Jr.
 Edmund C. Wingerd, Jr.

\$1,790.50

1939

Robert B. Ackerman
 H. Lloyd Balderston
 Robert L. Balderston
 John L. Birkinbine
 William S. Bonham
 George D. Bown
 James H. Bready
 Francis G. Brown
 Charles S. Bushnell, Jr.
 David B. Chapin
 Stanley C. Clader
 Henry H. Derr
 Jonathan Evans
 William E. Evans
 J. Pierce Fenhagen
 John M. Finley
 John A. Flick
 John D. Hallahan
 Harry A. Heilman, Jr.
 John A. Hoyer
 John J. Jaquette
 Henry H. Jones
 L. Crosby Lewis
 Richard H. Lillie

William W. McCune
 Frank K. Mears, Jr.
 Donald S. Mervine
 Harold H. Morris, Jr.
 Louis H. Palmer
 Robert E. Peifer
 Charles E. Rankin
 Seymour S. Rice
 Alan Roberts
 Daniel G. Santer
 Craig M. Sharpe
 Winslow D. Shaw
 T. David Shihadeh, Jr.
 Laird H. Simons, Jr.
 Thomas B. Steiger
 John M. Sykes
 Gilbert P. Talbot
 John M. Tinnon
 J. Patrick Trench
 William H. G. Warner
 Thomas A. Watkins
 Maurice A. Webster, Jr.
 Theodore A. Wertime
 Robert M. White
 Robert O. Whitson
 D. Norton Williams
 John F. Wilson
 Joseph C. Wingerd
 Samuel Withers

\$2,105.00

1940

Ernest G. Allen
 Bruce D. Anderton
 Henry P. Balivet, Jr.
 Richard W. Beeler
 Arthur E. Brown
 David B. Coursin
 Emerson L. Darnell
 Robert L. Dewees
 David P. Flaccus
 William D. Halsey, Jr.
 Hanford M. Henderson
 Alexander C. Hering
 John T. Hoffman
 Robert J. Hunn
 Samuel F. Johnson
 John M. Lindley, Jr.
 Parke Massey
 Elliott Mason
 Hayden Mason
 Robert W. McConnell, Jr.
 William F. McDevit
 Harrison W. Moore, Jr.
 Fritz Nova
 Charles K. Peters
 Richard A. Poole
 Robert L. Schaeffer, Jr.
 Charles J. Swift
 Thomas M. Taft
 James A. Vincent
 John W. Wieder, Jr.
 Charles H. Wolfinger
 J. William Wood, Jr.

\$ 667.00

1941

Edward P. Allinson, Jr.
 Stephen B. Andrus
 David B. Arnold
 Arthur G. Ashbrook, Jr.
 H. Richard Blackwell

Howard L. Blum
 Richard H. Bolster
 Daniel B. Boyer, Jr.
 Albert D. Branson
 Henry D. Cornman, III
 Hunt Davis
 Robert B. Dickson
 John W. Dorsey
 Christopher Evans
 Robert W. Evans, Jr.
 Louis J. Finger
 Robert C. Folwell, III
 J. David Garmey
 Philip Gifford, Jr.
 Edwin D. Grosholz
 Andrew F. Inglis
 Roger B. Kent
 Benton D. King
 Thomas Little
 Jan W. Long
 John R. McNeill
 William K. Miller
 Wayne Moseley
 Samuel M. Murphy, Jr.
 Arthur H. Napier, Jr.
 J. Philip Neal
 Wilson H. Pile
 Edward Scheffer
 Malcolm Smith
 David W. Shoemaker
 Robert H. Smith
 Samuel M. Snipes
 Leon Solis-Cohen, Jr.
 William W. Stainton
 G. Ralph Strohl, Jr.
 Harry H. Stuart
 George C. Sutton
 John B. Swigert
 Roy S. Vogt
 William R. Watson, Jr.
 Kenneth W. Weyerbacher
 Kenneth A. Wright
 Howard E. Ziegler

\$1,255.00

1942

George Aldridge
 E. Howard Bedrossian
 Edgar D. Bell, Jr.
 Burns Brodhead
 Knox Brown
 Noble Burford, Jr.
 Eleazer E. Childs
 Thomas C. Cochran, Jr.
 Robert W. Dunham
 Roy A. Dye, Jr.
 John Y. Elliott
 Arthur Evans
 Walter C. Falconer
 John D. Farquhar
 Edward Flaccus
 John B. Flick, Jr., M.D.
 Kenneth J. Foreman, Jr.
 David S. Fox
 John A. Fust
 James F. Gary
 C. Kirk Green
 Louis N. Grier, Jr.
 Gove Hambridge, Jr.
 Heber Harper
 Timothy P. Haworth
 Gordon W. Howe

Ta Chun Hsu
 Henry W. Johnstone, Jr.
 Richard Kay
 Malcolm S. Kirkpatrick
 L. Theodore Lawrence
 Clyde Nichols, Jr.
 Paul R. O'Connor
 Charles A. Olson, Jr.
 John N. Ratcliffe
 Thor N. Rhodin
 Kenneth S. Roberts
 Lewis Paul Saxon
 Charles D. Schaeffer
 Robert M. Steptoe
 Franklin P. Sweetser
 David C. Thompson
 John D. Thomson
 Dancy G. Weaver
 John H. Wise

\$1,096.80

1943

Jeremy Addoms
 Eugene E. Anderson, Jr.
 Arthur H. Bell
 Tristram P. Coffin
 Paul M. Cope, Jr.
 Jacob F. Dewald
 J. Morris Evans
 Sumner W. Ferris
 James B. Gilbert
 William L. Grala, Jr.
 Douglas R. Hallett
 John F. Herman, Jr.
 John R. Hogness
 Byron E. Howe, Jr.
 Holland Hunter
 Lewis C. Kibbee
 David B. Kirk
 Howard B. Kriebel
 Leon Levintow
 H. Mather Lippincott, Jr.
 Howard T. Lutz
 Russell M. Lyman
 Avrel Mason
 Robert McCrate
 John H. Meader
 John M. Moon
 Sterling Newell, Jr.
 Norman Peterkin
 Stuart L. Ridgeway
 Alan S. Rogers
 George M. Ryrie
 Arnold C. Satterthwait
 John W. Severinghaus
 William Schihadeh
 John G. Shinn
 Gerow Smiley
 David D. Somers
 Kenedon Steins
 Alexander C. Tomlinson
 Haskell Torrence
 William T. Warren
 John C. Whitehead
 Carl E. Widney, Jr.
 R. Bayly Winder

\$1,561.87

1944

C. Webster Abbott
 Charles S. Alden
 Ellsworth C. Alvord, Jr.

Cyrus L. Beye
 L. Paul Belgiano, Jr.
 John W. Clark
 William K. Conn
 J. Dee Crabtree
 George V. Downing, Jr.
 Thomas Elkinton
 Charles E. Fox
 John A. Frantz
 Jesse G. Grier
 Allen C. Hamilton
 Edmond E. Hammond, Jr.
 Robert W. Hill
 Walter Hollander, Jr.
 John T. Hough
 William McC. Houston
 George W. Hubler
 Edward B. Irving, Jr.
 John S. Klein
 John M. Krom
 William R. McShane
 Daniel K. Miller
 Warren Moore, Jr.
 Alfred M. Pease, Jr.
 Arnold R. Post
 D. Patrick M. Robinson
 H. Royer Smith, Jr.
 David E. Stokes
 Samuel E. Stokes, Jr.
 Spencer R. Stuart
 Richard W. Watkins
 Douglas C. Wendell, Jr.
 James H. Worl

\$1,530.00

1945

T. Crandall Alford
 Andrew P. Allinson
 William W. Ambler
 Kenneth Bache
 Warren C. Baldwin
 George A. Bartholomew
 David E. Bassett
 John A. Benge
 Charles M. Boteler, Jr.
 John H. Bush
 Crede C. Calhoun
 John R. Cary
 Frederick T. J. Clement
 Richard W. Cole
 Dorland L. Crosman
 Peter Deitsch
 George L. DeSchweinitz
 Paul H. Dominovich
 Henry H. Fetterman
 Samuel M. Fox, III
 Forrest L. Gager, Jr.
 James Gilmore
 Robert C. Good
 Richard T. Hamilton
 Edward H. Handy, Jr.
 Arthur R. Harned
 John M. Harrer
 David Yi Yung Hsia
 Ralph B. Jackson
 Lewis M. Johnson
 James R. Johnston, III
 Arthur E. Jones
 Blackburn S. Joslin
 William L. Lehmann
 Philip C. Mann
 Albert G. Morris

Charles E. Pancoast, III
 John W. Pierson, Jr.
 William Pinch, Jr.
 Edmond Preston, III
 Geert C. E. Prins
 R. Arnold Ricks
 Dale Ride
 James A. Schnaars
 Charles A. Shields
 Herbert N. Slotnick
 Drayton M. Smith
 Albert T. St. Clair
 Richard S. Valentine
 Christopher Van Hollen
 Stacey H. Widdicombe, Jr.
 Daniel H. Wingerd
 James B. Wright
 Llewellyn P. Young

\$1,378.50

1946
 Robert H. Bedrossian
 Thomas M. Birdsall
 Jonathan F. Bushnell
 William H. Chartener
 Edward M. Cook
 William T. Delp
 Hugh McL. Edgerton
 Peter W. Elkington
 Robert K. Finley, Jr.
 Anson B. Good
 Merrill Goodman
 Thomas P. Goodman
 Eugene H. Guthrie
 Robert E. Henderson
 Paul M. Henkels
 Theophilus J. Herter
 Walter Y. Kato
 Bertram Kummer
 William M. Lee
 Ben Z. Leuchter
 John K. Libby
 Donald B. McNeill
 Thomas W. Meldrum
 George Montgomery, Jr.
 Robert N. Price
 George B. Ritchie
 Thomas J. Ryan
 Charles C. Ryrie
 Charles S. Sangree
 Stewart P. Schneider
 William E. Sherpick
 David S. Stewart
 James F. Sutor
 George M. Yamane

\$1,058.75

1947
 William H. Annesley, Jr.
 Peter G. Bennett
 Jules Bingham
 Charles A. Doehlert, Jr.
 Robert M. Bowben, M. D.
 Edwin B. Klein, Jr.
 Cloyd Marvin
 William J. McIlhenny
 George Nicklin
 Richard D. Rivers
 Robert P. Roche
 Martin Sanders
 Howard W. Starkweather
 Daniel H. Wagner

H. Macy Whitehead

\$ 420.00

1948
 Monroe E. Alenick
 Timothy B. Atkeson
 William P. Barker
 William W. Bell
 Byron E. Besse, Jr.
 Joseph Birdsall, Jr.
 Robert L. Bowden
 Craig D. Culbert
 C. Daniel Drake
 Thomas T. Fleming
 Gunther Frankl
 William H. Harris
 John N. Hauser
 John K. Henne
 John R. Hoopes, Jr.
 James A. Jacob, Jr.
 Robert Maquinay
 Robert W. Meyers
 James F. Muench
 Martin Oppenheimer
 David A. Peters
 Richard C. Schlegel
 Richard W. Schuman
 George W. Taggart
 Edward S. Wheeler
 Robert J. Widmer

\$ 465.00

1949
 John Anderson
 Bruce L. Baer
 Omar Bailey
 Carlos Barraza
 Stuart M. Beck
 Addison S. Beckley
 Daniel S. Bernstein
 Sol Blecker
 Kenneth Blum
 J. Neil Boger
 James C. Buckley
 James F. Canan
 Edward H. B. Cornell
 Francis J. Dallett
 Marc Daniel Daudon
 Carmen Di Giovanni
 Henry J. Dvorken
 Edward Echikson
 C. Willis Edgerton
 Robert Edgerton
 Ralph M. Elliott
 Edmund K. Faltermayer
 Charles H. Geoffroy
 I. Robert Goodman
 Thomas D. Graff
 James R. Grosholz
 G. Stanley Hammond
 David S. Hastings
 Donald Hayes
 John B. Henkels, III
 William L. Hires
 George L. Hoffmann
 Irving Hollingshead, Jr.
 F. Thomas Hopkins
 Robert G. Hoskins
 H. Alan Hume
 Homer M. Kimmich
 David A. Laity
 H. Robert Lasday

Brian Mead, Jr.
 James Q. Miller
 Stephen Miller
 William H. Miller
 Dewitt H. Montgomery
 George H. Nofer, II
 Douglas H. Richie
 Henry G. Richerman
 George E. Ruff
 Edward O. Shakespeare
 Royal F. Shepard, Jr.
 Ellis P. Singer
 Stanley R. Tarr
 Richard C. Taylor
 David E. Thomas
 James H. Thorpe
 Conrad W. Turner
 Edwin E. Tuttle
 Robert H. Velte
 Harold C. Whitcomb
 Robert D. Williams
 Robert A. Wingerd
 Theodore C. Wright

\$ 941.50

1950
 John Acton
 Gordon B. Baldwin
 Joseph A. Barnes, Jr.
 Wesley R. Betson
 William S. Bishop
 L. Gordon Blasius
 Edwin L. Brown
 Nicholas G. Chantiles
 George D. Colman
 Brooks B. Cooper
 James G. Deitz
 John W. Doane
 Lester R. Dragstedt
 John C. Dyson
 A. Theodore Eastman
 Joseph P. Flaherty, Jr.
 Richard M. Fletcher
 James H. Foster
 Thomas B. Gerlack
 Charles E. Gilbert
 James B. Hastings
 Hoyt L. Hickman
 William J. H. Hough
 Lawrence G. Imhof
 Edgar M. Jamison
 Jon J. Johnston
 A. Wilson Jones
 John Z. Katz
 Andrew D. Lucine
 W. Bruce MacIntosh
 Karl S. Manwiller, Jr.
 William B. Miller
 Roger M. Morrell
 Kenneth M. Moser
 Richard N. Myers
 Merlin W. Packard
 Robert Parke, Jr.
 Richard B. Parran
 William S. Peifer
 Edward L. Pennypacker
 Rev. Robert Pollard, III
 Richard E. Rankin
 Thomas M. Ridington
 William Y. Rodewald
 Eugene Seder
 Arthur G. Segal

Joseph W. Sener, Jr.
 Merle B. Smith
 Paul R. Smith
 F. Scott Smyth, Jr.
 Edward R. Snader, III
 E. Thomas Snipes
 Harris I. Stern
 Thomas Stern
 Peter Stettenheim
 H. Frederick Strohl
 Edward W. Test
 Thomas P. Thornton
 Keith H. Turley
 William W. Vogel
 Ian G. Walker
 W. Brinton Whitall
 Horatio C. Wood, IV
 Andrew J. Zweifler

\$1,145.99

1951

H. David Abbott
 Donald S. Amussen
 Laurence H. Autereith
 John Ernest Bell
 Robert DeP. Brown
 Gouverneur Cadwallader
 Oscar W. Carlson, Jr.
 Allen B. Clayton
 Samuel Colman, Jr.
 Richard K. Conant, Jr.
 John J. Cooney
 Harold I. Cragin
 Hunter O. Cutting
 John H. Davison
 L. Crosby Deaton
 Allen H. Dewees
 John L. Dodge
 Kenneth M. Dolbeare
 Philip Edgerton
 Robert B. Edmiston
 Philip J. Flanders
 Floyd F. Ford, Jr.
 Robert W. Freeman
 James C. French
 Thomas Garbaty
 J. Brooke Gardiner
 Charles D. Griffith
 Donald B. Harris
 John L. Holcombe
 C. Dallett Hoopes
 Arkady Kalishevsky
 Edward Keetz
 F. Scott Kimmich
 Wayne T. Kratz
 Robert B. Kunkel
 Gilbert M. P. Leib
 Davis B. McCarn
 William P. Melcher
 Frederick S. Miller
 Rev. Anthony J. Morley
 Frederic O. Musser
 John F. Paulson
 William Peniche
 Darwin J. Prockop
 R. James Quillen, Jr.
 David W. Seith
 Paul E. Shipley
 Karl H. Spaeth
 William S. Tassman
 Peter Thoran
 David K. Trumper

Robert N. Tucker
 Harold F. Vedova
 Charles N. Welsh, Jr.
 William D. Wixom
 John G. Zerrer

\$ 883.12

1952

Robert W. Atkinson
 Peter O. C. Austin-Small
 Richard K. Barnes
 Victor Basiuk
 Howard Bliss
 William M. Boger
 B. Donald Broadbelt
 Robert McV. Collins
 Allen P. Croluis
 Peter Cummins
 William H. Darlington
 William A. Elliot
 Robert T. Foley
 Robert J. Franke
 Gerald Freund
 Joseph A. Gailey
 Burrill M. Getman, Jr.
 Vincent Gilpin, Jr.
 Edgerton Grant
 Joseph H. Greene, Jr.
 Robert A. Hammond, III
 Daniel W. Hardy
 Peter R. Haviland
 Earl J. Henne, Jr.
 Frederic V. Hetzel
 Edward N. Hibberd, Jr.
 Donald W. James, Jr.
 A. Clark Johnson, Jr.
 Roger F. Jones
 Frank Keetz
 George E. Lamphere
 Peter W. Lande
 Lawrence M. Leonard
 Lloyd O. Loechell
 David C. Mactye
 Alfred B. McKenzie
 Richard K. Mead
 William D. L. Melcher
 Ralph R. Messick
 Frank V. Miles
 Paul C. Milner
 Richard W. Newbold
 Peter Oliver
 G. Porter Perham
 Burton E. Pike
 C. Peter Rosenbaum
 Thomas N. Ruth
 Hershel Shanks
 W. Roger Sorg
 F. C. Greeley Stahl
 Paul L. Sterner, Jr.
 David P. Willis
 F. Thomas Wilson
 Richard E. Wilson
 John B. Wirt
 Thomas M. Woodward, Jr.
 Charles F. Wurster, Jr.
 Donald L. Young
 Walter G. Young

\$ 663.00

1953

A. Reid Allison, Jr.
 Harry H. Bair

John F. Benton
 Thomas N. Bisson
 Elmer B. Carter
 David H. Caskey
 David V. Clark
 Robert W. Crichlow
 Jerome F. Crowley
 Robert T. Curran
 W. Browning Davis, Jr.
 Hugo L. Deaton
 David N. Denman
 Joseph S. Dibble
 John Dixon
 Raymond L. Falge, Jr.
 E. Lee Forker
 George C. Fuller
 Thomas H. Goldsmith
 Roger C. Good
 Homer R. Goodall
 William F. Haines
 Morris Hansell
 John C. Harris
 Joseph E. Helweg, Jr.
 Herbert W. Hickman
 Bruce Z. Hollmann
 Hubert F. Howson
 Herbert A. Huene
 C. A. Wayne Hurtubise, Jr.
 Milton H. Isay
 Richard T. Lane, Jr.
 John M. Leggett
 Arthur W. Leibold, Jr.
 Andrew L. Lewis, Jr.
 Robert G. Logan
 Robert S. Matteson
 David Mayer
 Morris Perot, IV
 H. Edward Reed
 C. Evans Roberts, Jr.
 Burton R. Saidel
 C. David Schlegel
 J. Peter Schmitz
 Robert T. Seeley
 Lt. John M. Somerndike
 Joseph H. Stein, Jr.
 Frederick D. Tabbutt
 Lewis J. Thomas, Jr.
 H. Yuan T'ien
 Philip G. Vance
 James H. Van Sickle
 David C. Wilson
 Mitchell Winn
 Thomas A. Wood
 Anonymous

\$1,190.50

1954

Philip S. Benjamin
 Martin W. Bibbins
 Richard B. Bourne
 John C. Burton
 E. Kearney Carpenter
 W. Wistar Comfort
 Paul P. Craig
 James D. Crawford
 H. Michael Dunn
 Sterling J. Eagleton
 Robert P. Feeser
 James P. Felstiner
 Lawrence Finkelstein
 Stanley A. Forster
 Orin Frink

Charles L. Fry
 Montgomery T. Furth
 Robert Glatzer
 Peter B. Gontrum
 Christian M. Hansen, Jr.
 Earl G. Harrison, Jr.
 Conrad F. Hellwege, Jr.
 Thomas S. Hiers
 Edward P. Hollingsworth
 L. Morris Johnson
 John H. Kelly
 P. Richard Klein
 Mark C. Lissfelt
 Michael Moore
 D. Frederick Muth
 David R. Perry
 Richard M. Polsky
 Russell R. Reno, Jr.
 Thomas B. Rentschler
 Rodman S. Rothermel
 C. Townsend Ruddick, Jr.
 Stephen H. Sachs
 C. Edward Schofer
 Paul S. Seaver
 Philip W. Silver
 Richard W. Silver
 Edward M. Steele
 Richard K. Taylor
 T. Darrah Thomas
 George F. Todd, Jr.
 Carlo M. Veneziale
 John G. Walton
 William B. Watson
 Christopher White
 William C. Wilson
 Peter Woll

\$1,322.00

1955

Jonathan P. Albright
 Alexander C. Allen
 John J. Allen
 Robert Alvord
 Harris C. Arnold, Jr.
 Koya Azumi
 Lee C. Bennett, Jr.
 Eric D. Blanchard
 Anthony Borton
 James B. Bradbeer
 James A. Braker
 Roswell Eldridge
 John B. Flint
 Alexander M. Goldfinger
 Thomas B. Goodkind
 George W. Gray
 David E. Hogenauer
 Johns W. Hopkins, III
 Ira E. Kanter
 Chase D. Kepner
 Donald E. Kern
 Arthur Klein
 Robert Lewis
 Morton S. Mandell
 Richard W. Marek
 Robert D. Masterson
 Richard L. McCandless
 J. Gordon McDonald, Jr.
 Grant Morrow, III
 Urban Moss, III
 Jay A. Noble
 John H. Osler, III
 Garth R. Parker

Theodore G. Penick
 Paulding Phelps
 Harrison C. Raper
 Robert E. Read
 Richard D. Rivers
 M. Huyett Sangree, Jr.
 Edward U. Scherer
 Robert G. Schwartz
 John K. Speicher, Jr.
 John M. Strotbeck
 David C. Sutton
 Robert G. Wilson
 William E. Wood, III

\$ 482.00

1956

George M. Anderson
 John K. Armstrong
 Peter H. Armstrong
 Vincent S. Averna
 A. Ralph Barlow, Jr.
 Samuel A. M. Bishop
 Han van Mourik Broekman
 Robert M. Broughton
 Frederick M. Burelbach
 Donald F. Cahill
 Philip D'Arrigo
 John H. Dick
 Jon R. Dungan
 Franklin H. Duttonhofer
 George H. Fettus, III
 Mark B. Freedman
 Harold M. Friedman
 Robert J. Gage
 Thomas H. Garver
 John H. Gould
 Joseph E. Green, III
 Marshall Greenberg
 Robert B. Greer, III
 Norman Grossblatt
 Winfield S. Hall
 Anonymous
 John R. Hawkins
 Joseph H. S. Hoag
 Robert A. Irvine
 Richard A. Isay
 Otis S. Johnson
 Joel I. Judovich
 George P. Keeley
 John L. Kemmerer
 Jerome Klinman
 Stephen B. Knowlton, Jr.
 Ernest Kurkjian
 David A. Kushner
 Theodore G. Kummer
 Charles B. Lane
 Walter E. Langsam
 Newell B. Mack
 George Malko
 Michael Mann
 Thomas W. Martenis
 Stanley L. Mazurek
 Robin S. McDowell
 Arthur McLean
 James L. McMasters
 Donald C. Mead
 Louis H. Miller
 Richard Monroe
 Paul B. Neimark
 John L. Pfaltz
 Theodore M. Regan, Jr.
 Fritz G. Renken

H. Burt Richardson
 Carl R. Ruppenthal, Jr.
 Frederic N. Schwentker
 H. Stark Semans
 Herbert W. Shaw, Jr.
 Steven Sieverts
 Michael E. Smith
 Neil W. Swinton, Jr.
 John W. Thomas
 Robert K. Togasaki
 anonymous
 Robert P. Wallace
 David S. Walton
 Harold D. Weaver, Jr.
 D. Alexander Wieland
 Lewis R. Woodham
 Lamar D. Woznicki

\$ 699.55

1957

Paul R. Allen, Jr.
 Mason Barr, Jr.
 Robert C. Challener
 Murray Charlson
 Pierre Clavel
 John G. Cope
 Donald A. Crane
 Robert W. Densford, II
 William P. Doherty, Jr.
 Michael B. Donham
 Henry M. Farrell
 Richard T. T. Forman
 Roger S. Foster, Jr.
 James B. Francis, Jr.
 Diller B. Groff, III
 John B. Gruber
 Hans L. Hamester
 Benson H. Hart
 Paul R. Haviland, Jr.
 Warren Hecht
 Michael M. Heeg
 Rolland H. Henderson
 P. Donald Hopkins
 Christopher Hurd, Jr.
 Akira Iriye
 Stanley B. Johnson, III
 Robert W. Kilpatrick
 Joel M. Levin
 Robert J. Lindeman
 Louis R. Matlack
 Douglas W. Meaker
 James Peter Meloney
 Erik B. Mezger
 James P. Moody, Jr.
 William W. Moss, III
 William M. Murray
 Daniel W. Nauman
 William L. Newmeyer
 Anonymous
 Robert W. Noyes
 Lincoln D. Paine
 Richard C. Rehmyer
 Ralph C. Sanson, Jr.
 John R. Schott
 Richard B. Smith
 Edward J. Stevens, III
 William D. Stine
 Donald O. Stover
 Daniel W. Swift
 Henry M. Thomas, III
 Joseph Torg
 Richard V. Wagner

John G. Wallace
R. Reed Wilbur
Jack N. Wilentz
Charles S. Winans
Howard L. Wolf
William A. Yost, III
Peter K. C. Zavitz

\$ 788.00

1958

John Francis Adams
Paul L. Aiken
T. Nelson Baker, III
Nyles N. Barnert
Chet M. Berlin, Jr.
William C. Bertolet
James L. Boyer
Alfred S. Buck
Lawrence B. Christmas
John F. Crawford
Robert L. Crist
David W. Ellis
Michael Fogel
Burton Friedman
Laurence R. Gallager
Kenneth L. Geist
Leigh M. Gelser
Carl J. Getty
Allan Gold
Lauro D. S. Halstead
Lawrence Hartmann
Richard M. Hill
James D. Holmes
Richard S. Hornbeck
Marvin W. Humphreys
George Hurchalla, Jr.
Norman Klinman
Carl N. Kunz, Jr.
Harold P. Kurzman, Jr.
Thomas A. Medsger, Jr.
Jay P. Mohr
H. Shenton Monkemeyer
J. Wilson Myers
Kemble P. Nolte
Perkins C. Pedrick
Franklin H. Pennell, Jr.
Harvey E. Phillips
Hermann K. Platt
Leighton A. Price
Boyd G. Ralph
Mark H. Randall
David A. Richie
Jan A. Riegl
Paul G. Rodewald, Jr.
Earl Jennings Smith
C. Howard Thomas, Jr.
Peter Tilley
Donald P. Winter
Roger D. Wollstadt

\$ 352.10

1959

Henry J. Alexander
William R. Bingham, Jr.
J. Gurdon Brewster
David Chi Hoy Char
Bruce D. Campbell
Daniel M. Clemson
Robert M. Colburn
William Comanor
John Coulthurst
Peter N. Davis

John G. DeJong
Frank S. Dietrich
William A. Dorsey
Peter Eidenberg
Hans W. Engelhardt
Mead Mather Feick
Allen C. Fischer
J. Dexter Forbes
William G. Fullard, Jr.
David L. Grambs
Willard Green
Laurence S. Griffith
Jeffrey K. Hecht
Elliott M. Heiman
Richard L. Hobaugh
John H. Hornbaker, Jr.
Garry Hyatt
Alan E. Johnson
Michael M. Kaback
Walter E. Kaegi, Jr.
David H. Kain
James A. Katowitz
Robert J. Kriel
Robert G. Lathrop
Richard H. Lederer
Joseph Liguori
Joel R. Lowenthal
Frank T. Lyman, Jr.
Joseph Mamana, Jr.
Robert M. Matthews
Laurence C. Maud
Hugh W. McLeod
Frederick H. Merz
J. David Miller
J. Philip Miller
James H. Morris
James R. Moyes
N. Tenney Peck
Henry A. Phillips
Charles B. Pursel
Emery Van D. Rice
Theodore A. Robinson
Donald A. Scarborough
Donald B. Scholl
Frederick Shaw
John K. Smith
Palmer G. Steward
Donald Stone, Jr.
Martin V. B. Teem, Jr.
Charles G. Thorne, Jr.
Stuart H. Tubis
John R. Vastine, Jr.
William N. West, IV
Elijah B. White, III
Nathaniel Wing
Howard L. Wolfinger, Jr.

\$ 555.00

Master of Arts Degree Contributors

Maurice D. Bean
John H. Bottjer
Wilbert L. Braxton
Edwin B. Bronner
William D. Burbanck
William L. Conlon
Miss Florence T. Cox
Kenneth W. Crosby
Mary Esther Dasenbrook
Mrs. Elizabeth B. Garrison
Priscilla K. Goldthwaite
Michael Gunther
Margit Hilsenrad
Daniel H. Hoffman

Allen D. Hole, Jr.
Luther M. Hunt
Ira O. Kemble
Samuel D. Kron
Hershal L. Macon
Robert K. Marshall
Gerald D. McDonald
Ivan C. Milhous
Barbara T. Nichols
Robert O'Brien
David H. Parsons, Jr.
Clarence R. Perisho
Laura P. Pixton
Joyce Wuesthoff Povolny
Mr. and Mrs. Charles R. Read
Constance Walten Rendall
Annette J. Reynolds
Mrs. Channing B. Richardson
J. Walter Tebbetts
Allen M. Terrell
Mrs. Jean M. Trapido
Rev. Frank Weiskel
William A. Wolff
Mrs. Anne S. Wylie

\$ 473.00

Non-Alumni Contributors

Mr. John B. Adams
Mr. C. Vernon Albright
American Home Products Corp.
Mr. Gustave G. Amsterdam
Mr. and Mrs. Elmer Andrews
Anonymous
Dr. L. Earle Arnow
Mr. and Mrs. Wm. E. Aronoff
Mr. and Mrs. Frederick G. Auer
Mr. Alexander Ballard
Dr. and Mrs. Harold E. Barlow
Mr. John F. Barrett
Mrs. Philip J. Baur
Mrs. Elizabeth H. Beahm
Mr. Hugh Beggs
Mr. John H. Bertolet
Mr. and Mrs. Harold W. Bibber
Dr. and Mrs. Adolph F. Bien
Agnes Croll Blackburne
Dr. and Mrs. John F. Blair
Mrs. Robert C. Blake
Dr. Morton E. Block
Mr. and Mrs. M. J. Blumenthal
Mr. Jack L. Bockol
Mr. and Mrs. Hugh Bonner
Clement A. Borton
Dr. and Mrs. Benjamin Boshes
Henry M. Van Mourik Broekman
Rev. C. Victor Brown
Dr. Paul C. Bucy
Dr. and Mrs. Leo B. Burgin
Cabot Foundation, Inc.
Campbell Soup Company
Mr. and Mrs. James F. Carlin, Sr.
Mr. and Mrs. O. Wm. Carpenter
Mr. G. Howard Carragan
Katherine B. Carter
Cerro De Pasco Corp.
Mr. and Mrs. William E. Chace
Mr. Tin-Yuke Char
Mrs. Robert Charr
Chase Manhattan Bank Found.
Mr. Walter H. Clark
Robert C. Clothier
Dr. Morris U. Cohen

The Rev. William H. Cole
 Mr. William C. Coles, Jr.
 Mr. and Mrs. LeRoy Comanor
 Mrs. Frances W. B. Conti
 Mr. and Mrs. James W. Cornwell
 Dr. A. Reynolds Crane
 Mr. James Cucinotta
 Mr. Maxwell Dane
 Mr. and Mrs. Clayton W. Daneker
 Arthur M. Dannenberg, Jr.
 William M. David
 Mr. Walter S. Davison
 Mr. and Mrs. Wm. L. J. DeNie
 Mrs. Louis B. Dennett
 Dr. and Mrs. Howard C. Deshong
 Dow Corning Corporation
 Mr. and Mrs. Frank A. Dutenhofer
 Mr. and Mrs. Franz Dykstra
 Edward R. Easton
 Mr. Elchanan Echikson
 Mr. and Mrs. Henry Ecroyd
 Prof. and Mrs. Frederick D. Eddy
 Mr. and Mrs. Arthur T. Ellison
 Dr. William H. Erb
 Mr. and Mrs. Benjamin Ettinger
 Miss Anna Cope Evans
 Mrs. F. Algernon Evans
 Mrs. McClure Fahnestock
 Mr. Carl N. Fauntleroy
 Mr. Edmund A. Fenander
 Mr. and Mrs. George L. Fernsler
 Miss Frances C. Ferris
 Louis B. Flexner
 Mr. J. Wallace Forbes
 Dr. and Mrs. Joseph T. Forster
 Dr. and Mrs. Joseph E. Franklin
 Mr. and Mrs. A. Stone Freedberg
 Mrs. Louis K. Freedman
 Mrs. Frances B. Friedman
 Mrs. John Gardiner, Jr.
 Mr. and Mrs. Milton J. Garrett
 General Electric Foundation
 The General Foods Fund, Inc.
 Mr. and Mrs. John E. Gilmor
 Gleich Foundation
 Mrs. Ellis A. Gold
 Mr. and Mrs. A. Allan Goodman
 Mrs. Gladys E. Grant
 Mr. Philip H. Gray
 Warren W. Green
 Mrs. Florence D. Greene
 Dr. and Mrs. John Q. Griffith, Jr.
 Mr. Diller B. Groff
 Mr. and Mrs. Wm. E. Grose
 Mr. and Mrs. Irvin J. Gruber
 Gulf Oil Corporation
 Mr. and Mrs. William E. Gwatkin
 Dr. and Mrs. Wendall C. Hall
 Mrs. David K. Hart
 Mr. and Mrs. A. Arthur Hartman
 The Emily & John Harvey Found.
 Mr. Harland L. Hatch
 Mrs. Martin Hauri
 Mrs. Hubert M. Hayter
 Mrs. George M. Henne
 Hercules Cement Company
 Mr. and Mrs. John S. Heuss
 Dr. and Mrs. Kirk L. Hilliard
 Mrs. Linda S. Hires
 Mr. and Mrs. Robert Hires
 Thomas Lee Hiscott
 Dr. Charles L. Hobaugh
 Mr. and Mrs. Seymour Hochberg
 Mr. and Mrs. William J. Hodge
 Mrs. Nelson J. Hogenauer
 Mr. James S. Holmes
 Mr. Maurice Horwitz
 Household Finance Found.
 Mr. and Mrs. Donald K. Howard
 Dr. and Mrs. A. Herman Hutto
 International Business Machines
 Mrs. Milton H. Isay
 Mr. J. Robert James
 Mr. and Mrs. Allen O. Johnson
 Mr. Ashmore C. Johnson
 Mr. Archibald D. Jones
 Mary Hoxie Jones
 Mr. Walter E. Kaegi
 Mr. Richard M. Kain
 Mr. and Mrs. Harry E. Kalodner
 Mrs. Stanley J. Kann
 Dr. and Mrs. Milton Kannerstein
 Mr. and Mrs. Joseph Katowitz
 Dr. Samuel R. Kaufman
 Susan Dorothea Keeney
 Mr. Stanley E. Kerr
 Mrs. William M. Kift
 Mr. Wylie Kilpatrick
 S. Kind and Sons
 Mr. and Mrs. Joe Kindig, Jr.
 Dr. and Mrs. Otto Klineberg
 Mr. and Mrs. H. A. Klingenmaier
 Mr. and Mrs. Alexander B. Klots
 Mr. and Mrs. Ralph W. Knudson
 Mr. Michael E. Kratz
 Mr. and Mrs. Robert M. Krone
 Mr. and Mrs. Tahlman Krumm
 Mr. Frank E. Lamphere
 Mr. Hal B. Lary
 Mr. and Mrs. Louis L. Lauve, Jr.
 Mr. and Mrs. Robert B. Lea
 Mr. and Mrs. Henry D. Laenred
 Mrs. Morris M. Lee
 Mr. and Mrs. Julian H. Levi
 Dr. and Mrs. Harry L. Levitt
 Mr. and Mrs. John H. Liesveld
 Mr. and Mrs. Lawrence Linville
 Mr. and Mrs. Alvin Lippard
 Paul S. Lippincott, Jr.
 Mr. Benjamin Lipton
 Little Quakers Association
 Dr. and Mrs. Stephen D. Lockey
 Mrs. William Church Longstreth
 Dr. and Mrs. Milo O. Lundt
 Mr. Otto Lutherer
 Mr. and Mrs. Kenneth A. MacLeod
 Mr. J. Gilbert Macort
 Ward Madison
 Mr. Karl S. Manwiller
 Mr. and Mrs. Walter E. Margie
 Dr. and Mrs. Harry M. Margolis
 Philip W. Markley
 Mr. and Mrs. George Martin
 Masland Foundation
 Louis J. McCloskey
 McGraw-Hill Publishing Co.
 Myer D. Mermin
 Mrs. Carleton W. Meyer
 Mrs. S. W. Mifflin
 Mr. Henry S. Miller
 Mr. and Mrs. Reid T. Milner
 Walter H. Mohr
 Mrs. Willard B. Moore
 Mr. and Mrs. Kenneth W. Morgan
 George L. Morris
 Mrs. Joseph Morris
 Mrs. Emily LeC. P. Morris
 Dr. and Mrs. Grant Morrow
 Dr. and Mrs. Stuart Mudd
 Mr. Frank Murphey
 Mrs. Isaac Myers
 National Lead Foundation, Inc.
 Mr. Franklin S. Mauman
 Mr. and Mrs. Robert S. Noone
 Prof. & Mrs. Grant J. Northrup
 James A. Norton
 Mr. and Mrs. Wilson H. Oelkers
 Mr. and Mrs. Charles Orr
 Mrs. Edna K. Paine
 Mr. and Mrs. Thomas S. Parker
 Mr. David M. Paskow
 Rev. Othniel A. Pendleton
 Mr. and Mrs. Robert Penn
 Pensalt Chemicals Corp.
 Mr. and Mrs. Harvey C. Perry
 Mr. and Mrs. William C. Petraske
 Mr. Hugo M. Pfaltz
 Mr. Harry Phillips
 Mr. Henry Phillips, Jr.
 Mr. Henry L. Pierson
 Mr. and Mrs. Myron C. Pilbrow
 Mr. Charles Platt, Jr.
 The Psychological Corp.
 Kendrick Putnam
 Dr. William F. Putnam
 Mr. and Mrs. Milton Quint
 Mr. Ralph D. Quinter
 Mr. and Mrs. Frederick R. Raach
 Mr. Henry A. Ramey
 Mr. Paul C. Raymond
 Mr. and Mrs. Albert Reiner
 Mr. and Mrs. Russell R. Reno
 Richard H. Rhoads
 Mrs. Junius A. Richards
 Drs. George and Marie Riegl
 Robert L. Roberts, Jr.
 Mr. William T. Robinson, Jr.
 D. F. Rodgers Mfg. Co., Inc.
 Mr. and Mrs. Henry F. Roevers
 Mr. and Mrs. Joseph E. Rogers
 Mrs. Cuthbert H. Rogerson
 Mr. Arthur Rosenbaum
 Mr. Samuel R. Rosenbaum
 Mr. and Mrs. Norman Ruberg
 Mr. and Mrs. Douglass Ruff
 Dr. and Mrs. Gregory B. Salisbury
 Dr. and Mrs. Frederic E. Sanford
 Mr. Murray Sarnoff
 Mr. and Mrs. Benson N. Schambelan
 Dr. Lewis C. Scheffey
 Mr. Robert H. Scholl
 Dr. and Mrs. Abraham B. Schwartz
 Scott Paper Co., Foundation
 Mrs. Leighton R. Scott
 Mr. Samuel C. Segal
 Mr. Herman S. Shafer
 Mr. Mortimer J. Shapiro
 Mr. William F. Shelton, III
 Mr. and Mrs. John E. Shepherd
 Mr. John C. Shillock, Jr.
 Mr. Samuel Shuman
 Mr. and Mrs. Victor Siegel
 Mr. James Smillie
 Smith Kline & French Foundation
 Col. and Mrs. A. Mark Smith, II
 Mr. and Mrs. George D. Smith

Mary C. Smith
 Mr. Maurice Smith
 Mr. Peter Smith
 Mr. and Mrs. Randolph B. Smith
 Mr. Robert L. Smith
 Edmond B. Spaeth
 Rev. James R. Speer
 Mrs. John K. Speicher
 Mrs. Helen S. Spencer
 Mr. and Mrs. John P. Spiegel
 Mr. Howard W. Starkweather
 Mr. and Mrs. Morton Stavis
 Mr. and Mrs. Solomon W. Steigman
 Dr. and Mrs. George H. Stein
 Mr. Edward J. Stevens, Jr.
 Mr. and Mrs. Hale W. Stevenson
 Mr. Arthur G. Stone
 Mrs. Donald D. Swift
 Mr. and Mrs. Herbert K. Taylor, Jr.

Mr. David Teitelbaum
 Miss Frances W. Terry
 Mr. C. Howard Thomas
 Dr. and Mrs. T. Ewing Thompson, Jr.
 Tibbals Company, Inc.
 Dr. and Mrs. Herman H. Tillis
 Towers, Perrin, Forster & Crosby
 Mr. Oscar C. Trabert
 Rt. Rev. Andrew Yu-Yue Tsu
 Philip W. Vance
 Mrs. Joseph B. Vander Veer
 Mrs. Charles R. Vaughan
 Wallingford Steel Company
 Mrs. Frances Y. C. Warner
 Howard L. Waterall
 Mrs. William D. Webster
 E. H. Welbourn
 Mr. and Mrs. Louis Werner
 Mrs. A. Pawling Wesley

Mrs. Morris M. Wexler
 Dr. and Mrs. James G. M. Weyand
 Miles White Beneficial Society
 Gilbert White
 Mrs. Hassler Whitney
 Ellis T. Williams
 Mr. and Mrs. Harold T. Williams
 H. Justice Williams
 Mr. and Mrs. Stillman P. Williams
 Dr. Thayer Willis
 Mrs. John F. Wilson
 Mr. and Mrs. Abraham D. Woldorf
 Mrs. John Woodall
 Mr. and Mrs. Allyn S. Wright
 Mr. D. Robert Yarnall
 Mr. and Mrs. Cyrus C. Young
 The Young and Rubicam Found.
 Mrs. Joseph Zobian

\$24, 185.55

WILLIAM MAUL MEASEY TRUST

This Trust was established by William Maul Measey by Agreement dated June 27th, 1952 and supplementary Agreement dated April 26th, 1956.

The Trust Agreements provide that the income shall be granted as aid to students without restriction as to sex, race or religious affiliation, in selected secondary schools or colleges, who on the basis of character, scholarship and financial situation, merit assistance in continuing their education.

In secondary schools aid is to be given to students who live in the institutions during school terms, and not to day students.

The Capital of the Trust is to be invested solely in common or ordinary corporate shares.

At the request of the donor this is the only statement made of this Trust.

WILLIAM MAUL MEASEY TRUST

FINANCIAL STATEMENT

September 1, 1959 — August 31, 1960

Book Value of Trust 9/1/59	\$1, 190, 316.75
Increase in Trust by realized capital gains	18, 611.97
Book Value of Trust 8/31/60 (less than market value)	<u>\$1, 208, 928.72</u>

CASH STATEMENTS OF RECEIPTS & EXPENDITURES

Principal

Cash Balance 9/1/59	\$ 51, 060.61
Investments realized	55, 240.76
	<u>\$ 106, 301.37</u>
Investments made	\$ 104, 618.98
Cash Balance 8/31/60	1, 682.39
	<u>\$ 106, 301.37</u>

Income

Receipts, disbursements and reserves

<u>Income</u> from investments and reserves — 9/1/58 to 8/31/59	<u>\$ 70, 169.91</u>
<u>Disbursements</u> 9/1/59 to 8/31/60	
To Haverford College for administration of Trust	\$ 6, 637.03
To Haverford College for aid to 56 students	34, 430.14
To other colleges for aid to 6 students	4, 000.00
To secondary schools for aid to 54 students	23, 000.00
Reserve — 8/31/60 available to other colleges and secondary schools	2, 102.74
	<u>\$ 70, 169.91</u>

In order that the income available from the Trust for aid to students may be known at the beginning of each fiscal year, such income is accumulated and not awarded nor disbursed until the following year.

The net income during the fiscal year from 9/1/59 to 8/31/60 amounted to \$72,242.81, of which under the terms of the Trust, The Corporation of Haverford College is entitled to 10% expenses of administration.

TRUST FUNDS

W. PERCY SIMPSON TRUST

Provident Trust Co. and William J. Clark Trustees

This perpetual Trust was established under the will of W. Percy Simpson, Class of 1890, who died Second Month 19, 1938. The will provides that one fourth of the net income from the residuary estate, after the death of his widow (who died in 1940) and of his son (who died in 1946), shall go to two grandchildren, and of the remaining three quarters one tenth shall go to Haverford College. Thus Haverford's share of the income now is $\frac{3}{40}$ th. The income comes partly from securities but largely from Texas Oil Royalties and rentals. Of the present income as estimated by the Trustees, Haverford's share is about \$1,875 per annum.

The will further provides "without imposing any obligation upon Haverford College, I recommend to it the advisability of expending the moneys which shall from time to time come to it under this will or so much thereof as may be required, for the examination and analysis of applicants for admission to the College with respect to their mental, physical and general qualifications, and of students therein for the purpose of determining the field of activity best suited to the individual."

The will further provides that whenever a vacancy shall occur by the death or resignation or otherwise of the individual Trustee, the selecting of a new Trustee shall be done by the governing body of Haverford College, and that if the College fails to perform this duty, the payment of further income to it shall terminate.

HENRY C. BROWN TRUST

Pennsylvania Co. for Banking and Trusts, Trustee

Founded Eighth Month 18, 1948, by bequest of estimated value of \$183,000 from Henry C. Brown, of Philadelphia, ex Class of 1866, to the Pennsylvania Co., in trust for benefit of Haverford College. The will provides that the income is to be used for current expenses. The will further provides that "the said College shall have power in its discretion to use a portion of the principal of the said trust estate not exceeding in any one year twenty per cent of the original fund for permanent purposes such as buildings, books and equipment proper for conducting the work of instruction and education."

NATHAN BRANSON HILL TRUST

Founded in 1904 by deposit with First National Bank and Trust Company of Minneapolis, Minn., Trust, of a paid up life insurance policy for \$5,000 by Samuel Hill, '78, being in memory of his father, Nathan Branson Hill. The income is to be used to aid in the maintenance of Haverford College so long as it shall remain under the auspices of the Society of Friends. In 1931 Samuel Hill died and the policy realized \$5,039. The Trust is to remain in the care of the above named bank, now known as First National Bank of Minneapolis, until twenty-one years after the death of Samuel Hill's son, James N. Hill, who is still alive. At that time, the Trust is to terminate and the principal is to be vested in Haverford College absolutely.

MARY FULLER COOK TRUST

Girard Trust Corn Exchange Bank, Trustee Under Deed, Dated July 29, 1948

This perpetual trust created by deed of Mary Fuller Cook, who died April 25, 1955, widow of J. Horace Cook, Class of 1881, became operative in so far as the college is concerned, July 14, 1957, upon death of a life tenant.

The income from this trust is to be added to that from J. Horace Cook Fund "subject to the provisions of that Fund, but with the understanding that if, in the judgment and discretion of the authorities of the college, such income shall be needed for purposes of the college other than scholarships, the college shall be free to so use it."

ENDOWMENT FUNDS

FUNDS FOR GENERAL PURPOSES

GENERAL ENDOWMENT FUND

Founded in 1847 with subscriptions of \$50,000 by a number of Friends. Additions were made as follows: 1868, from an anonymous source, \$5,000; 1869, bequest of Ann Haines to increase the compensation of professors, \$2,670; 1870, bequest of Richard D. Wood, \$18,682.96; 1872, from William Evans, \$1,000; 1874, from executors of Jesse George, deceased, \$5,000; 1880, bequest of Dr. Joseph W. Taylor, \$5,000; 1901, legacy of Ann Williams, \$2,425.50; 1941, from children of Aubrey C. Dickson in his memory, \$300; 1954, Maria Luisa Gildemeister, \$500; 1955, Estate of Elizabeth S. Dillinger, through Bessie Kohne Schenck, \$3,000. Present book value, **\$106,302.64**. The income is used for salaries and scholarships.

JOHN FARNUM MEMORIAL FUND

Founded in 1878 by the heirs of John Farnum by gift of \$25,000 as a memorial to him. Added to in 1899 by legacy of \$10,000 from Elizabeth H. Farnum, widow of John Farnum. The income only is to be used to endow a "professorship of some practical science or literature." The chair of chemistry was designated as the "John Farnum Professor of Chemistry." The principal is held in the name of three Trustees for the benefit of The Corporation of Haverford College. Present book value, **\$31,741.22**.

JOHN M. WHITALL FUND

Founded in 1880 by bequest of \$10,000 from John M. Whittall, Sr. Present book value, \$10,640.09. The bequest is upon the condition that the art of drawing, especially mechanical drawing, shall be taught, and the income only is to be used, and for this purpose.

DAVID SCULL FUND

Founded in 1885 by bequest of \$40,000 from David Scull, Sr. Present book value, \$44,806.59. The income only is to be used to endow a professorship. The chair of biology was designated as the "David Scull Professor of Biology."

EDWARD L. SCULL FUND

Founded in 1865 by net bequest of \$9,500 from Edward L. Scull, '64. The legacy was added to the General Endowment Fund, but in 1888 it was set apart as a separate fund. Present book value, \$11,364.35. The income only is to be used. The bequest is free from any legally binding conditions, but it was the testator's desire "that some judicious means shall be employed by the Managers to further advise students on the subjects of diet and reading."

WISTAR MORRIS MEMORIAL FUND

Founded in 1892 by gift of \$5,000 in bonds by Mary Morris, widow of Wistar Morris, as a memorial to him. There are no restrictions. The income is used for general college purposes. Present book value, **\$5,144.24**.

ISRAEL FRANKLIN WHITALL FUND

Founded in 1896 by net legacy of \$9,667.83 from Israel Franklin Whittall. Present book value, \$10,781.94. The income only is used for the payment of professors or teachers.

JACOB P. JONES ENDOWMENT FUND

Founded in 1897 by residuary legacy of Jacob P. Jones. This amounted when received to par value of \$279,021.60; book value, \$332,301.60, and sundry real estate. The real estate has all been sold, netting \$847,709.92. Present book value, \$1,301,375.34. The income only is to be used for general college purposes, and out of said income there shall be admitted a portion at least of the students either free of charge or at reduced rates. In accordance with this provision, about \$7,500 per annum is used for scholarships, and the balance of income for general college purposes. Jacob P. Jones will contains the following: "My hope is that under the blessing and favor of God there will come from this source a revenue which shall be productive of growth and vigor in the institution as well as help at this critical period of their lives to many deserving young men of slender patrimony."

JOHN FARNUM BROWN FUND FOR THE STUDY OF THE BIBLE, BIBLICAL HISTORY AND LITERATURE, PHILOSOPHY, AND KINDRED SUBJECTS

Founded in 1900 by the late T. Wistar Brown as a memorial to his son, John Farnum Brown, '93. The original gift was in cash and securities of a par value of \$43,000, shortly afterwards increased by further gifts of \$15,000. The founder made further gifts of cash and securities until 1915, the total being \$19,381 cash and \$48,500 par of securities with book value of \$41,490. His total gifts therefore had a book value of \$234,970.81. Of this, \$5,000 donated in 1910 is for endowment of prizes in Biblical History and in Philosophy. A portion of the income was capitalized each year to keep intact the full value of the fund until 1940 when this fund was included in the Consolidation of funds. Present book value, \$275,899.76. The income only is to be used for the purpose of making provision for the regular study of the Bible and Biblical History and Literature, and as way opens for religious teaching. In 1910, the scope and title of the Fund were enlarged to include "and Philosophy and Kindred Subjects." Income up to \$200 may be used for prizes in Biblical Literature and Philosophy.

CLEMENTINE COPE ENDOWMENT FUND

Founded in 1904 by bequest of \$25,000 from Clementine Cope. There are no restrictions. The income is used for general college purposes. Present book value, \$21,493.67.

JOSEPH E. GILLINGHAM FUND

Founded in 1907 by bequest of \$50,000 from Joseph E. Gillingham. The testator said, "I request, but I do not direct, that part of the income of this legacy may be used for free scholarships for meritorious students." In accordance with this request, \$800 was until recently appropriated annually from the income for scholarships, the balance being used for general college purposes. Present book value, \$42,394.72.

ELIZABETH H. FARNUM FUND

Founded in 1891. The original principal of this fund, amounting to \$10,000, was held by the Provident Trust Co. of Philadelphia under a deed of trust created by Elizabeth H. Farnum of Philadelphia. The income was first paid to a life tenant until 1914, when income first accrued to the College "for the payment of the salaries of teachers and professors by the said College employed." Under date of Ninth Month 18, 1944, upon petition of the Trustee, concurred in by the College, the Court of Common Pleas awarded the principal to the Corporation of Haverford College "to be administered by it for the purposes set forth in the deed of trust in accordance with the non-profit corporation law."

JAMES R. MAGEE FUND

Founded in 1915 by bequest of \$10,000 from James R. Magee, '59, and added to in 1925, 1926, 1928, 1929, 1930, 1931, 1932, 1936, 1937, 1940, and 1944 by additional payments of \$29,182.84, \$1,694.84, \$499.31, \$499.68, \$488.85, \$207.33, \$400, \$250, \$100, \$449.89, \$175.00, 197.99 (1947-48) and \$7.40 (1948-49), under his legacy. Present book value, \$45,035.96. There are no restrictions except that the income only is to be used. This is applied to general college purposes.

ALBERT K. SMILEY FUND

Founded in 1915 by gift of \$1,000 from Daniel Smiley, '78, as a memorial to his brother, Albert K. Smiley, '49, and added to in 1924 and 1926. Present book value, \$1,500.00. There are no restrictions except that preference was expressed that the income only should be used. This is applied to general college purposes.

THE HINCHMAN ASTRONOMICAL FUND

Founded in 1917 by bequest of \$10,000 par value securities from Charles S. Hinchman. Increased in 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, and 1936 by donations of \$28,926.95 from a friend of the College. Present book value, \$39,515.48. The income only to be used "to increase the salary of the astronomical professorship so as to provide a suitable instructor in the ennobling study of the heavens."

WALTER D. AND EDITH M. L. SCULL FUND

Founded in 1918 by bequest of Walter D. Scull, whose death followed shortly after the death of his sister, Edith M. L. Scull. Each left his or her estate to the other, unless predeceased; in this latter case both American estates were left to Haverford College. Both were children of Gideon D. Scull, '43, and resided in England. Income accumulated before the receipt of the fund by the College amounted to \$16,887.66, of which \$15,078.51 was added to the

principal of the fund. Present book value, \$174,560.31. The fund was created to establish a professorship of modern English constitutional history, and the chair has been designated as the Walter D. and Edith M. L. Scull Professorship of History.

ALBIN GARRETT MEMORIAL FUND

Founded in 1919 by legacy of \$25,000 from Mary Hickman Garrett, in memory of her late husband, Albin Garret, '64. Present book value, \$26,771.00. There are no restrictions. The income is used for general college purposes.

ARNOLD CHASE SCATTERGOOD MEMORIAL FUND

Founded in 1919 by gift of \$30,000 in securities from Maria Chase Scattergood in memory of her son, Arnold Chase Scattergood, of the Class of 1919, who died in his Junior year. The income only is to be used toward the payment of professors salaries. Present book value, \$24,381.59.

FRANCIS B. GUMMERE MEMORIAL FUND

Founded in 1920. This fund was started by a gift of \$25,000 from the late Miss Emily H. Bourne, of New York, conditional upon the raising of \$100,000 additional for an endowment of the Chair of English Literature in memory of her friend, Professor Francis Barton Gummere. A committee of alumni, consisting of J. Stogdell Stokes, '89, chairman; E. R. Tatnall, '07, treasurer; Hans Froelicher, '12, secretary; Charles J. Rhoads, '93; Alfred M. Collins, '97; Winthrop Sargent, Jr., '08, and Parker S. Williams, '94, working with President Comfort, organized a comprehensive campaign among the alumni and friends of the College to raise \$375,000 for this purpose and for increase of professors salaries; the first \$100,000 of unspecified gifts was used to complete the Francis B. Gummere Memorial Fund to at least \$125,000, and the balance comprised the Isaac Sharpless Memorial Fund. Total, book value, \$125,569.51.

ISAAC SHARPLESS MEMORIAL FUND

Founded in 1920. The alumni of the College conducted during 1920 a campaign for \$375,000 additional endowment for the College to make possible additional salaries to the professors. Appeal was made to found two new funds, the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund. The funds received, except where otherwise specified, were first applied to the completion of the former up to \$125,000 (see above). Specified gifts and donations thereafter received, were then applied to the Isaac Sharpless Memorial Fund. The income only is to be used for salaries of professors. Total book value, \$218,728.43.

GENERAL EDUCATION BOARD FUND

The General Education Board of New York appropriated \$125,000 in 1920 to the campaign for increase of endowment when the Francis B. Gummere Memorial Fund and the Isaac Sharpless Memorial Fund, totaling \$375,000, were raised. Interest at five per cent was paid on the full sum for three years, and the \$125,000 in full payment was completed in 1926-1927. Total book value, \$126,076.83.

HAVERFORD IMPROVEMENT FUND AND CONSOLIDATED CAMPUS HOUSES ACCOUNT

Founded in 1922 to hold the Corporation's undivided share in College Lane land and eight houses. This property was turned over to the Corporation free of debt on Third Month 17, 1922, and with same the then debt of the Corporation amounting to \$155,942.15 was liquidated. The fund started with an

undivided interest of \$19,000. There was added in 1922, \$9,000; and in 1925, \$2,000. In 1926, \$5,000 of this fund was sold and the proceeds were appropriated for the alterations to Roberts Hall. The balance of this fund, \$25,000, was also used in 1927 for the same purpose. The income was used for general college purposes.

The College Lane land was purchased in 1886 for the benefit of the College by David Scull, Justus C. Strawbridge, Richard Wood and Francis Stokes, Managers of the College and now all deceased. With contributions raised by them and by mortgages on which they went on the bonds, funds were raised to build six dwelling houses, and two houses were built by the Corporation itself. From the income of the houses the debt against the properties was gradually reduced until it was entirely liquidated in 1919. The net income from 1919 until 1922, when the property was turned over to the Corporation, was applied toward the reduction of the Corporation's debt.

As of Ninth Month 1, 1944, all of these eight College Lane houses, together with seven houses which had been bought for the College and formed a part of the College debt, and nine other Campus houses which were owned free of debt, were consolidated at a combined valuation of \$281,331.70 into a new Campus Houses Account held by Consolidated Investment Account. There have been additional investments in other College houses from time to time and the present book value is \$618,298.77. Amortization of 1½% is to be applied to the annual reduction of the investment.

WILLIAM PENN FOUNDATION

Started in 1926 toward a fund of \$120,000 to establish a chair or lectureship in Political Science and International Relations. This fund forms a part of the Centenary program to raise \$1,000,000. This foundation is to be devoted, at the discretion of the Managers, to providing adequate undergraduate instruction in the theory and practice of our own and other governments, in the history of past attempts to secure international agreements and in the methods by which good international understanding may be promoted and maintained. Book value to date, \$102,067.43.

WALTER CARROLL BRINTON MEMORIAL FUND

Founded in 1920 by gift of \$5,000 by the family of Walter Carroll Brinton, Class of 1915, who died in France Twelfth Month 8, 1918, while engaged in Friends' Reconstruction Work. The fund sustained the Walter Carroll Brinton Scholarship until 1926-1927. It was then increased \$6,000 by further gifts of the founders, and at their request the purpose was changed from a scholarship fund to form a separately named fund of the William Penn Foundation, with its income to be used for the same objects. Present book value, \$14,125.79.

CORPORATION FUND

Founded in 1928 by setting aside \$70,000 of proceeds from sale of 5.811 acres of land on the southern boundary and at the southeastern corner of the College farm. In 1937, the fund was increased \$8,810, being proceeds of the sale of 1.762 acres of land to the Philadelphia Skating Club and Humane Society for their new ice skating rink. In 1951 the fund was increased by \$4,994.50, being proceeds of the sale of .284 acres of land to Philadelphia Electric Co. In 1953-54 the cost of renovation of Philips wing in the Library was taken from this fund (\$60,175.56). Present book value, \$25,128.94. The fund is invested and the income used for general college purposes, until otherwise directed by the Managers.

ELIZABETH J. SHORTRIDGE FUND

Founded 12 Month 22, 1930, by bequest from Elizabeth J. Shortridge, without restrictions. Until otherwise directed by the Managers, the income only is used for general purposes. Present book value, \$10,000.00.

HOWARD COMFORT MEMORIAL FUND

Founded in 1934 by gift of \$1,000 from President William Wistar Comfort in memory of his father, Howard Comfort, Class of 1870, who was a Manager from 1880 until his death in 1912, and Secretary of the Board of Managers from 1884 until 1908.

The fund was added to by further gifts from the same donor of \$1,000 in 1935, \$1,000 in 1936, \$2,000 in 1937 and \$500 in 1949. The income only is to be used for general purposes. Present book value \$5,527.31.

ELLEN W. LONGSTRETH FUND

This fund was established in 1935 by a bequest of \$20,000 and her residuary estate from Ellen W. Longstreth, a Friend, belonging to Haverford Meeting and living in Bryn Mawr. The principal and income are both unrestricted. This bequest and residue of \$84,416.28, together with further realization on residuary assets and an additional amount received upon the death of a life tenant of a trust, made a total of \$117,520.19. A part of this fund was used for the 1953-56 Building Program. Present book value is \$67,520.19.

ALBERT L. BAILY FUND

Founded in 1936 by an unrestricted bequest of \$5,000 from Albert L. Baily, '78. The income is used for general purposes. Present book value, \$5,000.00.

ELIZABETH B. WISTAR WARNER FUND

Founded First Month 16, 1937, by unrestricted bequest of \$4,950 from Elizabeth B. Wistar Warner, of Germantown, widow of George M. Warner, '73. The income is used for general purposes. Present book value \$4,950.00.

T. ALLEN HILLES BEQUEST

Founded First Month 19, 1937, by receipt of the proceeds of a trust fund created in 1935 by T. Allen Hilles, class of 1870, formerly of Wilmington, Delaware, recently of Glen Mills, Pa., who died 11th Month 15, 1935. The amount received in stocks and cash was \$285,000. Proceeds of mortgages of \$7,460.94 in 1938, and final cash from executor in 1939 of \$1,603.37 brought the gross total to \$294,064.31. From this was deducted in 1939 the final settlement of taxes and fees totalling \$13,300, thus making the final net bequest \$280,764.31. Accumulated income of \$12,489.77 was also received on First Month 19, 1937. In the trust created by the donor in 1935 he provided: "The gift to Haverford College shall constitute a fund to be known as 'The Hilles Bequest,' and the income shall be used for repair, upkeep and improvement of the building which I have given to Haverford College known as the Hilles Laboratory of Applied Science of Haverford College. My purpose in making this gift is primarily to relieve the Corporation of Haverford College from any additional expense on account of the erection of the building which I have given

them, and the accompanying expansion of its educational activities, but whenever and if the Board of Managers or other governing body of the College shall determine it to be for the best interest of the College to devote the whole or any part of the income of the fund to uses other than those above specified such income may be applied to such uses and in such manner as the Board of Managers or other governing body may in its absolute discretion determine." Present book value, \$280,764.31.

LEONARD L. GREIF, JR. AND ROGER L. GREIF FUND

Founded Ninth Month 29, 1937, by a gift of \$1,000 from Leonard L. Greif, '34, and Roger L. Greif, '37, of Baltimore. The gift was unrestricted, but the Managers have set aside this fund as endowment for general purposes, the income only to be used, until otherwise determined by them. Further gifts were received from Leonard L. Greif, Jr. in part through the 1949 Campaign. The present book value is \$7,000.

EDWARD M. WISTAR FUND

Founded First Month 9, 1938, by gift of \$2,500 from Edward M. Wistar, '72, for endowment, the income only to be used for general purposes. Present book value, \$2,500.00.

MORRIS E. LEEDS FUND

Founded Sixth Month 26, 1941, by a gift of shares of Leeds & Northrup stock, this fund was added to by further gifts of that company's stock during the lifetime of Morris Leeds. Upon his death he bequeathed to the college three-quarters of his entire residuary estate which bequest like the gifts made in his life was entirely without restrictions either as to principal or income.

The fund was ordered by the Managers until otherwise directed to be included among the funds for general purposes. After an appropriation for the 1953-56 Building Program, it has a present book value of \$1,369,519.75.

J. HENRY SCATTERGOOD FUND

Founded Tenth Month, 1941, by donations totaling \$1,660, made by members of the Board of Managers in recognition of the services for 25 years of J. Henry Scattergood, '96, as Treasurer of the Corporation of Haverford College. A further gift of \$340 was made in 1943-44, \$200.00 in 1949-50, \$1,000 in 1950-51 (through 1949 campaign) \$1,000 in 1951-52 (through 1949 campaign), \$1,000 in 1952-53 (through 1949 campaign), and \$6,800.00 in 1953-54 (through 1949 campaign). Present book value, \$12,000.00.

The income of this fund is to be used in the field of International Relations and to be at the disposal of the President of the College and the William Penn Professor holding the Chair in Political Science and International Relations. If the income in any year is not used for the special purposes as stated, in the discretion of the President, it may be used for general purposes. It is further provided that after Tenth Month 1, 1951 the use of the fund for other purposes, both as to principal and income, shall be subject to the direction of the Board of Managers of Haverford College.

PARKER S. WILLIAMS FUND

Founded Tenth Month 1, 1947, by unrestricted bequest of \$100,000 under the will of Parker S. Williams, Class of 1894, of Villanova, Pa., who died in 1942. The actual amount received from the executors was \$103,993.26, due to the increased value of certain investments, which were held, instead of being converted, under an agreement with the College. Income was paid to the College from time to time until the receipt of the bequest.

GILBERT C. FRY FUND

Founded Fourth Month 2, 1948, by an unrestricted gift of \$1,000 U. S. Treasury Bond from Gilbert C. Fry, of Germantown, Philadelphia, Class of 1923, in remembrance of his 25th anniversary of graduation. A new fund was set up and until otherwise ordered by the Managers, the income only will be used for general purposes. Further gift of \$500.00 was made in 1949-50, \$1,000 was made in 1950-51 (through 1949 campaign), \$1,000 1951-52, and \$1,500 in 1952-53. Present book value \$5,000.00.

DANIEL B. BOYER FUND

Founded Third Month 3, 1948, with an initial gift of \$2,500 in stock from Daniel B. Boyer, Boyertown, Pa., Class of 1911. The donor's letter states: "It is my desire that the income from the stock be allocated for faculty use. If present reduced College income is not sufficient to cover current faculty needs, the Board of Managers should not hesitate to sell the shares and apply the proceeds for that purpose." A new fund was set up, and until otherwise ordered by the Managers, the income only will be used for faculty salaries.

MARRIOTT C. MORRIS FUND

Founded Ninth Month 1, 1948, by unrestricted bequest of \$10,000 from Marriott C. Morris, Class of 1885, of Germantown.

The fund is classified among unrestricted funds for General Purposes, and is included in Consolidated Investment Account. Book value, \$10,000.

1949 CAMPAIGN SALARY FUND

Founded Sept. 1, 1950 by a transfer of \$107,800.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to augment faculty salaries and for increasing, where necessary, the teaching staff to make possible the desired ratio between faculty and students.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expanded at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$190,763.62

THE RUFUS M. JONES FUND FOR ADVANCEMENT OF TEACHING

Founded Sept. 1, 1950 by a transfer of \$235,000.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to stimulate professional growth, encourage desirable research, make possible short-term absences for study or to render special service, and to raise professors' salaries.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$377,004.09

WILLIAM PYLE PHILIPS FUND

Founded on the death of William Pyle Philips, class of 1902, of New York City, N. Y. on December 18, 1950 by the bequest of his entire residuary estate as an endowment fund in perpetuity, the principal is to be invested in such securities as the Board of Managers shall deem advisable "but at least $\frac{1}{2}$ thereof to be invested in diversified common stocks."

The income is "to be applied from time to time to such purposes as said Board of Managers in their discretion shall deem advisable, provided, however, that approximately one-half ($\frac{1}{2}$) of such income be applied to one or more of the following purposes:

"(a) Purchase for the Treasure Room of the College Library of rare books which the College would not otherwise buy and comparable with the books mentioned in *Article Third* hereof;

"(b) Bringing to the College distinguished scientists or statesmen for a lecture or series of lectures, for courses of instruction, for seminars, for research or for other academic purposes; and

"(c) Subscription to important learned periodicals, domestic and foreign, of the various humanities and sciences, purchases of back numbers of such periodicals and binding of the same for permanent preservation in the College Library." Present book value, \$2,434,480.58

WILLIAM B. BELL FUND

Founded in Ninth Month 1951 by partial distribution of \$19,444.44 on account of an unrestricted bequest to the College of William B. Bell, Class of 1900, of New York, and in 1953-54 a final distribution of \$14,436.47.

The fund is to be used for General Purposes and is included in Consolidated Investments Account. Present book value is \$36,178.02.

DR. THOMAS WISTAR FUND

Founded in 1952, upon the termination of a Trust by the bequest of the residuary estate of Dr. Thomas Wistar, class of 1858, the funds are to be kept invested and the net income used for such purposes either general or special as the Managers of said College may direct. Present book value is \$25,068.15.

THE CHARLES MCCAUL FUND

Founded in 1953 by a bequest of 1/8th of the residuary estate of Mary N. Weatherly. The fund is to be known as The Charles McCaul Fund, in memory of her step-father. The income only shall be spent.

The use of the fund is unrestricted but it is the hope of the Testatrix that some portion of the income may be used to provide one or more scholarships, and that the rest of the income may be used to provide *sound and conservative instruction* in the Social Sciences.

It is my preference that such scholarships be awarded to students who show especial interest in the field of religion and the Social Sciences, but I do not specifically limit the use of the Fund, having confidence in Haverford College to teach high ideals." The present book value of this Fund is \$37,187.20.

ISAAC & LYDIA COPE SHARPLESS FUND

Founded in 1953 by bequest of \$5,000.00 from Lydia Cope Sharpless, who died Sept. 23, 1952, "in memory of my husband, Isaac Sharpless." The fund is without restriction, and has a present book value of \$5,000.00.

CLASS OF 1937 FUND

Founded Fifth Month 16, 1955 by a gift of \$4,500 from Margaret A. Lester and John A. Lester '96, in appreciation of the benefits rendered to their son, John A. Lester, Jr. '37.

The fund is unrestricted and has a present book value of \$4,500.

J. HORACE COOK FUND

"Founded in 1955 by a bequest under the will of J. Horace Cook, Class of 1881, who died March 25, 1939, this bequest became effective on the death of Mary Fuller Cook, his widow. This Fund is "to be kept . . . and the income to be used for the needs of the College as it shall see fit, but preferably for a scholarship one to be awarded each year so there will be a student in each class receiving his tuition from this fund." "Ten per cent of the net income for each and every year shall be added to principal of this Fund." Present book value, \$125,405.47

THE FORD FOUNDATION ENDOWMENT FUND

The Ford Foundation made grants to the college on July 1, 1956 and June 27, 1957, for an Endowment Fund totaling \$345,000.

In accordance with the terms of the gift "Until July 1, 1966, the principal of the grant shall be held by the grantee institution only as endowment, and the income from such grant shall be used only to increase faculty salaries. After July 1, 1966, principal and income of the grant may be used for any educational purposes of the institution."

THE FORD FOUNDATION ACCOMPLISHMENT FUND

The Ford Foundation also made on July 1, 1956 and June 27, 1957, two payments for an accomplishment grant in the amount of \$214,000. This grant was made in recognition of the fact the college had, with certain other institutions to whom similar grants were made, taken the lead in their regions in improving the status and compensation of American College Teachers,

"The purpose of the grant shall be to advance the academic program of the grantee institution either by increases in faculty salaries or by meeting other pressing academic needs. The grant may be spent in whole or in part, from time to time, as the grantee institution may determine."

THOMAS HARVEY HAINES AND HELEN HAGUE HAINES FUND

Founded in 1956 by a bequest of one-third of the residuary estate of Helen Hague Haines, this fund was given in memory of Thomas Harvey Haines, class of 1896. The proceeds are to be used "to promote understanding among men by research, training and teaching in the field of human relations." Present book value is \$12,426.18.

EMILY BISHOP HARVEY FUND

Founded in 1958 by a bequest of \$10,000 from Emily Bishop Harvey of Radnor, Penna., patron and friend of the college, who died November 12, 1957, this fund is without restrictions and is to be used for the general purposes of the college. Book value is \$10,000.

CLASS OF 1933 TWENTY-FIFTH ANNIVERSARY FUND

Founded in 1958 by initial gift of \$6,477.50 from the Class at its 25th Reunion, the income is to be used for general college purposes at the discretion of the Board of Managers. However, the Board may use the principal, if conditions unforeseen at the time of establishment of the fund made it advisable. Present book value \$7,577.50

JOHN E. HUME FUND

Founded in 1959, by a bequest of one-third of the residuary estate of John E. Hume, Class of 1897, the fund is unrestricted and is to be used for General Purposes. Present book value \$35,000.

FREDERIC H. STRAWBRIDGE FUND

This gift was left to the college by Frederic H. Strawbridge, Class of 1887, upon his death in 1958. The fund represents the culmination of a long series of gifts made during his fifty-one years as a member of the Board of Managers. It is unrestricted, and has a present book value of \$10,000.

WILLIAM H. COLLINS FUND

Established by the bequest of the residuary estate of Julia Cope Collins, who died August 20, 1959, and who was long a devoted friend and neighbor of the College, and widow of William H. Collins, Class of 1881, for many years head of the College Building and Grounds Division, the use of this fund is to be left to "the judgment of the governing body of the College." Julia Collins states in her will that "if the income from this Fund, or some part of it, could be used for scholarships for deserving students, I should approve of such use but . . . I do not restrict the use of the Fund for this purpose." The present book value is \$179,610.45.

MARY FRANCES NUNNS FUND

Founded in 1960 by a bequest of \$25,000 from Mary Frances Nunns, the income is to be used for scholarships unless otherwise directed by the Board of Managers, they being empowered by the will to use the income for scholarships or general purposes. The present book value is \$25,000.

FUND FOR GRADUATE SCHOOL MOSES BROWN FUND

A trust founded by T. Wistar Brown, in 1906, as a memorial to his father, Moses Brown. Transferred to the College in 1916 after his death, having at that time a par value of \$372,821.91 and book value of \$318,823.56. Present book value, \$389,733.83 The fund was created to establish a graduate course in religious study in harmony with and supplementary to the teaching and study provided for by the John Farnum Brown Fund. The income only is to be used; at least ten per cent of the total income must be capitalized each year. The unused income, if any, is likewise capitalized at the close of each fiscal year. The graduate school supported by the Moses Brown Fund was designated "The Thomas Wistar Brown Graduate School." In 1927 the former separate school was discontinued and eight graduate scholarships were created.

In 1937-1938, arrangements were first made for cooperation in courses with Pendel Hill, a school for religious education under the care of Friends, located at Wallingford, Pa.

FUNDS FOR INFIRMARY INFIRMARY ENDOWMENT FUND

Founded in 1911 from subscriptions totaling \$9,072.55, raised among alumni and friends of the College. The income is used toward the expenses of the Morris Infirmary. Present book value, \$9,653.44.

JOHN W. PINKHAM FUND

Founded in 1911 by legacy of \$5,000 from Dr. John W. Pinkham, '60, being transmitted by gift from his widow, Cornelia F. Pinkham. There are no binding conditions, but as she expressed an interest in the Morris Infirmary, then building, the Board of Managers directed that the income of this fund should be used in the support and maintenance of the Infirmary. Present book value, \$5,059.50.

FUND FOR HAVERFORD UNION HAVERFORD UNION FUND

Founded in 1920 by gift from the former Haverford Union Members of \$1,000 par value of bond at book value of \$800 and \$678.59 cash, and all the personal property in the Union from the Haverford College Union. The College assumed the responsibility for the care of the building First Month 16, 1920. The income is used toward the maintenance of the Union building. Present book value, \$1,878.82.

FUNDS FOR SCHOLARSHIPS

THOMAS P. COPE FUND

Founded in 1842 by gift of sixty shares of Lehigh Coal and Navigation Co. stock, par value \$3,000, from Thomas P. Cope. Present book value, \$5,257.82. The income only is to be used "for the education of young men to qualify them to become teachers, but who are not of ability to pay their own schooling." This fund sustains the Thomas P. Cope Scholarships.

EDWARD YARNALL FUND

Founded in 1860 by bequest of \$5,000 from Edward Yarnall. Present book value, \$6,069.23. The income only is to be used for "the support of free scholarships." The fund sustains the Edward Yarnall Scholarships.

ISAIAH V. WILLIAMSON FUND

Founded in 1876 and increased in 1883 by gifts of sundry ground rents from Isaiah V. Williamson. Present book value, \$19,817.40. The income only is to be used for free scholarships. The fund sustains the Isaiah V. Williamson Scholarships.

RICHARD T. JONES SCHOLARSHIP FUND

Founded in 1885 by bequest of \$5,000 from Jacob P. Jones as a memorial to his late son, Richard T. Jones, '63. The income only is to be used to sustain the "Richard T. Jones Scholarship." Present book value, \$5,056.25.

MARY M. JOHNSON SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Mary M. Johnson. Accrued interest before payment to the College increased the fund by \$3,062.95. The bequest was to establish a "perpetual scholarship." The fund sustains the Mary M. Johnson Scholarships. Present book value, \$7,013.61.

SARAH MARSHALL SCHOLARSHIP FUND

Founded in 1897 by bequest of \$5,000 from Sarah Marshall. Accrued interest before payment to the College increased the fund by \$2,589.49. The bequest was to establish a "perpetual scholarship." The fund sustains the Sarah Marshall Scholarships. Present book value, \$7,919.76.

CLEMENTINE COPE FELLOWSHIP FUND

Founded in 1899 by gift of \$25,000 from Clementine Cope. The gift was to establish the "Clementine Cope Fellowship Fund to assist worthy and promising graduates of Haverford College in continuing their course of study at Haverford or at some other institution of learning in this country or abroad." The selection of the Fellows is made by the Board of Managers upon nomination by the Faculty. Present book value, \$22,845.86.

ISAAC THORNE JOHNSON SCHOLARSHIP FUND

Founded in 1916 by gift of \$5,000 from Isaac Thorne Johnson, '81. Present book value, \$10,083.68. The gift was to establish "The Isaac Thorne Johnson Scholarship to aid and assist worthy young men of Wilmington Yearly Meeting or of the Central West to enjoy the privileges of Haverford College." Unused income is added to the principal of the fund.

CASPAR WISTAR MEMORIAL SCHOLARSHIP FUND

Founded in 1920 by gift of Edward M. and Margaret C. Wistar of \$5,000 par value in bonds in memory of their son, Casper Wistar, of the Class of 1902, who died in Guatemala in 1917 while engaged in mission service in that country. The income only is to be used for scholarships, primarily for sons of parents engaged in Christian service, including secretaries of Young Men's Christian Associations, or students desiring preparation for similar service in America or other countries. Present book value, \$6,951.21.

J. KENNEDY MOORHOUSE SCHOLARSHIP FUND

Founded in 1926 by gifts totaling \$3,000, with \$1,000 added in 1926, and \$1,000 in 1928 and \$1,000 in 1929 from the Class of 1900 in memory of their classmate, J. Kennedy Moorhouse. The scholarship provided by this fund is "to be awarded, whenever a vacancy shall occur; to the boy ready to enter the Freshman class, who in the judgment of the President of the College appears best fitted to uphold at Haverford the standard of character and conduct typified by J. Kennedy Moorhouse, 1900, as known to his classmates: A man, modest, loyal, courageous, reverent without sanctimony; a lover of hard play and honest work; a leader in clean and joyous living." Present book value, \$5,155.85.

LOUIS JAQUETTE PALMER SCHOLARSHIP FUND

Founded in 1928 by gift of \$5,000 from Triangle Society, as follows:

"The Triangle Society of Haverford College herewith presents to the Corporation of Haverford College, a fund of Five Thousand Dollars (\$5,000) to be hereafter known and designated as the 'Louis Jaquette Palmer Scholarship Fund';

"This fund represents contributions from the members of the Triangle Society of Haverford College who have been thus inspired to perpetuate the memory of their fellow member, Louis Jaquette Palmer, of the Class of 1894, one of the founders of the Triangle Society, whom they admired for his cooperative spirit and constructive interest in student and community welfare. The fund is placed with the Corporation of Haverford College with the understanding:

"That such student shall be selected from a list of those eligible for entrance to Haverford College, who shall have combined in his qualifications the fulfillment of such conditions as apply to applicants for the Rhodes Scholarships under the terms of its creation, and furthermore that the student so selected and entered in Haverford College may continue to receive said

scholarship fund throughout his course at College, subject to the approval of the Committee, otherwise preference shall be given to applications for the Freshman Class;

"That the selection of said student and the determination of the qualities and conditions hereinbefore mentioned shall be subject to the decision and control of a committee of three (3), which committee shall be composed of two (2) members of the Triangle Society and the President of Haverford College, the said members of the Triangle Society to select and recommend the applicants and the committee as a whole to determine their qualifications and eligibility.

"Finally, in the event that no student is selected by the Triangle Society or that a vacancy occurs, the income from said funds and any additions shall accumulate as provided under the customary rules and regulations of the Corporation of Haverford College."

This fund has further been added to by yearly contributions from members of the Triangle Society, and during the current year, besides such additions in the amount of \$1,072.94, by a legacy of Mary R. Thomas of \$500. Present book value is \$14,380.13.

PAUL W. NEWHALL MEMORIAL SCHOLARSHIP FUND

Established in 1931 by bequest of \$5,045.60 from Mary Newhall in memory of her father, Paul W. Newhall, a Manager, 1844-48, for the establishment of a scholarship fund. The income only to be used for free scholarship purposes. Present book value, \$5,045.60.

ROBERT MARTIN ZUCKERT MEMORIAL SCHOLARSHIP FUND

Founded in 1935 by gift of \$750. \$2,000 each year, 1936 to 1940, and in 1942; \$2,500 in 1941; \$1,000 in 1943; \$1,000 in 1944; \$2,000 in 1945; \$2,000 in 1947-1948, \$1,000 in 1949-1950, by Harry M. Zuckert, New York, in memory of his son, Robert Martin Zuckert, of the Class of 1936, who was killed in an accident in June, 1935. The income is to be used for scholarship and the donor said, "I should prefer a boy who is a native of New York or Connecticut and who now resides in one of those States." Present book value, \$22,250.00.

SAMUEL E. HILLES ENDOWMENT CREATED BY MINA COLBURN HILLES

Founded in 1935 by gift of \$5,000 from Mrs. Mina Colburn Hilles, of Orlando, Fla., in memory of her husband, Samuel E. Hilles, Class of 1874, formerly of Cincinnati, who died in 1931. This fund was created under a trust deed with Central Title and Trust Co., Orlando, Fla., to whom annual reports are to be made. The income only is to be used for scholarships for worthy students who are unable to finance their expenses at Haverford College. Present book value, \$5,017.31.

CLASS OF 1913 SCHOLARSHIP FUND

Founded Fourth Month 15, 1937, by gift of \$3,000 from Class of 1913 for the endowment of scholarship aid. The income only is to be used for scholarship aid, to be awarded annually to a worthy student of any undergraduate class. Preference is to be given to sons of members of the Class of 1913 who may apply and who meet the usual requirements of the College. Present book value, \$3,000.00.

THE AUGUSTUS TABER MURRAY RESEARCH SCHOLARSHIP FUND

Founded Fifth Month 31, 1939, by gift from two anonymous friends of Dr. Augustus Taber Murray, '85, by gifts of \$20,000 par value of securities subject to annuity during their lives, and with permission to use principal for the annuity payments, if necessary.

Upon the deaths of the two annuitants, the remaining principal shall be held in a fund, the "Income to be used for scholarships in recognition of the scholarly attainments of Augustus Taber Murray, a distinguished Alumnus of Haverford College, of the Class of 1885, and for many years a professor of Leland Stanford University, the fund to be known as 'The Augustus Taber Murray Research Scholarship.' Then scholarships in English literature or philology, the classics, German literature or philology (in order of preference) shall be awarded upon such terms and conditions as the College may from time to time establish to students who have received the bachelor's degree at Haverford College, and shall be awarded for the purpose of study in other institutions toward the degree of Doctor of Philosophy or such degree as may in the future correspond to that degree."

The amount of the Scholarship is to be \$900 a year whenever awarded, and only unmarried students are eligible to hold it. Present book value, \$25,281.18

THE CLASS OF 1917 SCHOLARSHIP FUND

Founded Seventh Month 13, 1942, by initial gift of \$2,000.00 from the Class of 1917, John W. Spaeth, Jr., Treasurer, as a Twenty-fifth Anniversary Gift. A further gift of \$250.00 was made at the same time to cover the first two years of a scholarship of \$125.00 per year. Preference is to be given to a son of a member of the Class of 1917. The income only is to be used for a scholarship to the extent of \$150.00 per annum. This was increased to \$200.00 per annum in 1947-1948. Further contributions from the members of the Class of 1917 are to be applied in the following order:

(1)—To supplement the annual income from the principal sum of \$2,000.00, so that the annual scholarship stipend shall be \$150.00 (increased to \$200 in 1947-48, increased to \$300 in 1949-50, increased to \$500 in 1952-53), or as near that sum as may be;

(2)—To add to the principal sum any surplus of these annual contributions not needed to serve the purpose of (1). Since the scholarship stipend for the years 1942-1943 and 1943-1944 was already provided for by the additional \$250.00 already contributed by the Class of 1917, the annual contributions from the Class in these two years was added at once to the principal sum of \$2,000.00, thus serving the purpose of (2) above. Further contributions have been made annually to make their present book value \$11,200.00

DANIEL B. SMITH FUND

Founded Tenth Month 6, 1943, by gift of \$2,500 from Anna Wharton Wood, of Waltham, Mass., who died in 1944. This was increased Fifth Month 24, 1945 by a bequest of \$2,500 made by Miss Esther Morton Smith, of Germantown, Philadelphia, who died Third Month 18, 1942, by a further bequest by Dorothea Atwater Smith of \$5,000 March 10, 1958.

This fund is established by the granddaughters of Daniel B. Smith "in loving memory of their grandfather and his intimate association with the early years of the College."

The income is to be used, in the discretion of the Faculty as an annual scholarship for some young man needing financial aid in his College course. Preference is to be given to a descendant of their father, Benjamin R. Smith, if any such should apply. Present book value, \$10,000.00.

SARAH TATUM HILLES MEMORIAL SCHOLARSHIP FUND

Founded Eleventh Month 1, 1943 by bequest of \$75,534.58 from Joseph T. Hilles 1888, in memory of his mother "Sarah Tatum Hilles."

The will directs that the income be used "to provide for such number of annual scholarships of \$250 each as such income shall be sufficient to create"; they are to be awarded by the Managers upon "needy and deserving students," and to be known as "Sarah Tatum Hilles Memorial Scholarships."

It is estimated that twelve scholars can be thus provided for at present. Present book value \$75,534.58.

ELIHU GRANT MEMORIAL SCHOLARSHIP FUND

Established Second Month 2, 1944 by gift of \$200 from Mrs. Elihu Grant to supplement the simultaneous transfer of \$803.73 to this new fund from Donations Account, being the balance of Donations made by Dr. Grant during his lifetime to the Beth Shemesh account, and \$75.00 realized from the sale of some of his books. Mrs. Grant has made a further gift of \$1,000 in 1943-44 and \$2,000 in 1944-45. And, Grant Foundation, Inc., gave \$10,000, also in 1944-45. Mrs. Grant made a further gift of \$1,000 in 1945-46. In 1949-1950 in connection with the Campaign, the Grant Foundation made a further gift to the College of \$25,000, to be added to this fund. Present book value, \$40,275.01.

With the donor's approval, the terms of the fund are as follows:

"Founded in 1944 to commemorate the service to Haverford College of Dr. Elihu Grant, from 1917 to 1938, a member of the College faculty. The income from this fund is applied to scholarship assistance to students in the Humanities, primarily those specializing in the study of Biblical Literature and Oriental subjects, and is limited to those whose major subject has been approved by the College faculty. In special circumstances the income may be utilized to assist those working for a post-graduate degree at Haverford College." If conditions change, the Managers are given power to change the use of the fund. In making the additional grant in 1949-50, the Foundation stated that "the income from this present gift may be allocated as scholarship or fellowship awards by the proper authorities of the College to under graduate or graduate students without restriction as to courses of studies." Present book value, \$40,275.01.

CHRISTIAN FEBIGER MEMORIAL SCHOLARSHIP FUND

Founded Sixth Month 13, 1946 by a gift of \$8,000 from Madeleine Seabury Febiger, of Philadelphia, in memory of her husband, Christian Febiger, Class of 1900.

On Third Month 18, 1949 a bequest of \$9,050 was received from the executors of Mrs. Madeleine Seabury Febiger, who died September 27, 1947, and was added to this fund.

The income only is to be used in paying the tuition or other college expenses of worthy, needy students at Haverford College. Present book value, \$17,050.

JOSEPH L. MARKLEY MEMORIAL SCHOLARSHIP FUND

Founded 2nd Month 10, 1947 by gift of \$5,000.00 from Mrs. Mary E. B. Markley of Ann Arbor, Michigan, widow of Joseph L. Markley, A.B. '85, M.A. '86, who was Professor of Mathematics at University of Michigan. The gift was made "to be held as an endowment fund in memory of Joseph L. Markley of the Class of 1885. The income of which is to be granted each year, in the discretion of the faculty, as a scholarship to some student on the basis of character, scholarship and financial need."

JOSEPH C. AND ANNE N. BIRDSALL SCHOLARSHIP FUND

Founded 2nd Month 24, 1947 by initial gift of \$10,000 from Dr. Joseph C. Birdsall, Class of 1907, of Haverford, Pa., "for the establishment of a new fund to be known as "Joseph C. and Anne N. Birdsall Scholarship Fund, the income only to be granted each year, in the discretion of the faculty of Haverford College, as scholarship aid to some student or students of Haverford College who are preparing for medicine,—the selection to be upon the basis of character, scholarship and financial need." Further gifts 1947-48, \$5,000; 1948-49, \$5,000; 1949-50, \$5,000; 1956-57, \$5,000. Present book value, \$30,000.

DANIEL E. DAVIS, JR., MEMORIAL SCHOLARSHIP FUND

Founded by gifts made First Month 20 and Second Month 17, 1948, totalling \$3,000, by Mr. and Mrs. Daniel E. Davis, of Sewickley, Pa., to establish the Daniel E. Davis, Jr., Memorial Scholarship Fund, in memory of their son, ex Class of 1944, who was killed in aerial warfare in the Pacific.

The income from the fund is to be granted each year, in the discretion of the Faculty, as a scholarship to some student on the basis of character, scholarship and financial need.

JONATHAN M. STEERE SCHOLARSHIP FUND

Founded Twelfth Month 28, 1948 by gift of \$2,300 from Jonathan M. Steere, Class of 1890. Classified among the Scholarship Funds and included in Consolidated Investment Account.

The donor's provisions governing the use of the fund are as follows: "With this stock, or its proceeds, I wish to establish a fund for a scholarship primarily for a graduate of Moses Brown School, Providence, R. I., now under the care of New England Yearly Meeting of Friends. Should the scholarship not be awarded in any one year to a graduate of Moses Brown School, it may be awarded to someone else, preferably from New England, in the discretion of the College. If advisable, it may be given to more than one boy in any year. My preference is that it be awarded to a member of the Society of Friends, but I do not so restrict it. Should the time come when, for any reason, scholarships may not be needed or desirable, having full confidence in the Management of the College, I wish that both the principal and the income be used as the College in its sole discretion shall determine.

"I suggest that at the College it be known as the 'Moses Brown School Scholarship', and at the School as the 'Haverford Scholarship'." A further gift of \$4,985.00 was made in 1949-50 and \$2,715 in 1950-51

Upon his death on September 21, 1958, \$10,000 was added by bequest to the fund making the present book value \$20,000.00.

WILLIAM GRAHAM TYLER MEMORIAL SCHOLARSHIP FUND

Founded Tenth Month 1949 by gift of \$15,000 from Miss Mary Graham Tyler in memory of her father, William Graham Tyler, Class of 1858. Formerly of Philadelphia, William Graham Tyler took an active part in civic improvement in New Jersey and in Iowa, and was concerned with the advancement of Friends Education at both William Penn College and Haverford College.

The income from the fund is to be granted each year, in the discretion of the College, as scholarship aid to some student or students on the basis of character, scholarship, and financial need. Preference is to be given to students from Oskaloosa, Iowa, or William Penn College in that state.

1890 MEMORIAL SCHOLARSHIP FUND

Founded in March 1950 by a gift of \$2500 from Andrew L. Lewis of Worcester, Pennsylvania, in memory of his father, John F. T. Lewis, of Class of 1890, "and in recognition of his father's friendship with the members of his class."

The income from this fund is to be awarded as a scholarship by the College to a deserving student. Since in the beginning the income from this fund will not be large enough to furnish an entire scholarship, it may be used in conjunction with some other scholarship to insure aid of material size. Increased by \$100 in 1951-52 and \$100 in 1952-53. Present book value, \$2,700.

1949 CAMPAIGN SCHOLARSHIP FUND

Founded Sept. 1, 1950 by a transfer of \$38,610.00 from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds available for scholarships, in order to maintain the quality and increase the diversity of the student body and to carry on the tradition that personal merit rather than ability to pay is the primary entrance qualification.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$49,762.93

MAX LEUCHTER SCHOLARSHIP FUND

The plan for this fund was evolved during the life of Max Leuchter, who died in 1949, and carried out upon his death by his wife Cecila P. Leuchter and his sons, Ben Z. Leuchter and Joel C. Leuchter. Self educated after completion of grade school, becoming editor and publisher of the Vineland Times Journal, Max Leuchter wished to benefit the College to which he sent his son, and which he had come to greatly admire.

The purpose of the donors in making this gift in 1950 of \$10,000.00 was to "create a scholarship which shall be given yearly to a student whose need can be demonstrated, whose academic performance meets the College requirements, and who, in addition, gives promise of making an outstanding contribution to the life of the College through his breadth of interest, his love of hard play and of hard work."

The scholarship shall be in the amount of \$300.00 in the beginning. It may be given to a new student each year or to one student through each of his four years. All income received above \$300.00 shall be capitalized each year.

"When the income from the fund has reached proportions such that an additional scholarship of \$300.00 can be awarded, and that at the same time at least \$300.00 can be returned to the fund, the additional award shall then be made."

"It is the further wish of the donors that, while their interests are primarily as stated above, should the Board of Managers of the College be faced with circumstances which cannot be foreseen now, the Board may, at its discretion, use the income from the fund for College purposes other than the scholarship purposes." The present book value is \$14,782.78

A. CLEMENT WILD SCHOLARSHIP FUND

Founded in 1951 by a first gift of \$4,087.50 of Gertrude T. Wild in memory of her husband, A. Clement Wild, of the class of 1899. The income from the fund is to be used for a scholarship or scholarships, to be granted without restrictions in the discretion of the College.

In making the gift the donor, though reiterating the freedom from restrictions, expressed the feeling that as A. Clement Wild was born in England, becoming a naturalized American Citizen, a grant to an English Exchange Student or someone in a similar category would be appropriate. Increased by \$4,625.00 in 1951-52; \$4,300.00 in 1952-53; in 1953-54 \$4,100.00; in 1954-55 \$5,300.00; and in 1955-56 \$2,587.50. The present book value is \$25,000.

CAROLINE CHASE SCHOLARSHIP FUND

Founded December 10, 1951 by payment on a bequest of part of the residue of the estate of Caroline Chase, daughter of Thomas Chase, one time president of the College, of Providence, Rhode Island, whose Will provided:

"This gift is made as an expression of my father's enthusiastic appreciation for its high standards of scholarship in Greek, Latin and English literature.

"It is my intention that the said share given to said Haverford College shall be used for any of the educational purposes of said College according to the discretion of the President of the time being."

Present book value of the fund is \$6,245.11.

ROY THURLBY GRIFFITH MEMORIAL FUND

Founded in 1953 by a legacy of \$5,000.00 from Grace H. Griffith, who died April 14, 1952, in memory of Roy Thurlby Griffith, class 1919. "The income therefrom to be used for a scholarship or scholarships for such individual or individuals as in the judgment of the Trustees of said College shall be deserving of the same. The Trustees of said College shall have full power and discretion to determine the number of scholarships, the amount of such scholarships, and the recipients of the same, but it is my desire that wherever possible preference shall be given to boys who have no father and who are in need of financial assistance." Present book value \$5,000.

CLASS OF 1904 SCHOLARSHIP FUND

Founded June 4th, 1954 in commemoration of its fiftieth anniversary by the Class of 1904 and the families of its deceased members, the Fund is to be used for scholarship purposes and has a present book value of \$6,000.

INAZO NITOBÉ SCHOLARSHIP FUND

"Founded in 11th Month 1955 by a bequest of \$10,000 under the will of Anna H. Chace of Providence, R.I. The fund became payable upon the death of her sister Elizabeth M. Chace.

"The income, or so much thereof as said College may deem best, (is) to be used and applied for the education at said Haverford College of a Japanese student who shall be a resident of Japan at the time of his appointment to such scholarship and for his traveling expenses from and to Japan and his living expenses during the period he shall hold such scholarship." Present book value, \$10,000.

THE SUMMERFIELD FOUNDATION SCHOLARSHIP FUND

Founded February 1956, by a gift of \$1,000 from The Summerfield Foundation, this fund is to be added to the Endowment of the College; the income is to be used for scholarship purposes. Present book value, \$5,000.00

W. LACOSTE NEILSON SCHOLARSHIP FUND

This fund was established in June 1957 by the family and friends of W. LaCoste Neilson, Class of 1901, in his memory.

The income is to be used for the payment of one or more scholarships at the discretion of the College, preference if possible being given to students taking scientific or practical courses rather than those in the field of the arts. The present value of this fund is \$12,575.00

WALTER R. FARIES SCHOLARSHIP FUND

Founded in 1959 by a gift of securities from Walter R. Faries, Class of 1916, the fund is to be administered in accordance with an agreement with the donor.

Upon the death of certain annuitants "all income thereafter shall be used to provide partial or full scholarships for future students at Haverford with the understanding that leadership qualities rather than scholastic ability alone shall be considered as far as practicable in making such award. If changing circumstances in years to come shall, in the judgment of the Board of Managers of Haverford College, make the original purpose of this fund impracticable or undesirable, such Board shall have the power to use the income for other purposes of the College." Present book value \$65,292.69

RUFUS MATTHEW JONES SCHOLARSHIP FUND

Founded Twelfth Month 23, 1959, by initial gifts of \$1,500 from Clarence E. Tobias, Jr. of Cynwyd, Pennsylvania, as a testimonial to Rufus Jones and in gratitude for "the excellent educational facilities Haverford provided for me and my son," the principal and income of this Fund are to be used for scholarships or loans to students majoring in Philosophy. Preference is to be given to seniors. The recipients will be selected by the Chairman of the Philosophy Department in consultation, if he desires, with his departmental associates and in accord with the usual scholarship practice of the College. The Donor welcomes addition to the Fund from anyone who might be interested.

If changing circumstances in future years make it advisable, the provisions for use of this Fund may be changed by the Board of Managers on the recommendation of the President of the College and the Chairman of the Department of Philosophy. The present book value is \$1,500.

GEORGE A. KERBAUGH SCHOLARSHIP FUND

This fund was established in 1960 in recognition and appreciation of the leadership and personal generosity of George Kerbaugh, '10, who headed the efforts of the Triangle Society to provide for additional badly needed stands for Walton Field.

At the time the stands were given in 1947-49 it was agreed that the income derived from the stands preferably would be used for improving the athletic facilities of the College as determined by the Administration after consultation with the Triangle Society. Changing conditions with regard to admission charges and fluctuations in attendance made it so difficult to arrive at a satisfactory determination of the exact income which these new stands produced that it was decided, in lieu of the previous arrangement, to establish a second Triangle Scholarship of \$700 per annum drawn from the general funds appropriated for scholarships, this being the equivalent of 5% income on the original investment in the stands.

George Kerbaugh's many services to the College included his chairmanship of the Committee which raised the funds for the Library addition built in the 1930's. The Board of Managers then expressed to him "its heartfelt appreciation and its sense of great obligation for a notable achievement."

FUNDS FOR THE LIBRARY

ALUMNI LIBRARY FUND

Founded in 1863 by contributions from the alumni and other friends of the College. In 1909 the unexpended balance (about \$5,000) of a fund of \$10,000 raised in 1892, and known as the "New Library Fund," was merged into the Alumni Library Fund. Present book value, \$17,435.06. The income is used for binding and miscellaneous expenses of the Library.

MARY FARNUM BROWN LIBRARY FUND

Founded in 1892 by gift of \$20,000 from T. Wistar Brown, executor of the Estate of Mary Farnum Brown. Additions were made by T. Wistar Brown in 1894, \$10,000 for a lecture fund, and in 1913, \$20,000. In 1916, after T. Wistar Brown's death, there was added to this fund \$34,499.78 par value of securities, book value, \$30,149.78, being a trust which he had created for this purpose in 1908 and to which he had made additions in subsequent years. Present book value, \$68,238.12. The purpose of this fund (except \$10,000) is for the increase and extension of the Library. The income only is to be used for the purchase of books, and one-fifth of same is to be spent for books promoting the increase of Christian knowledge. The books purchased with the income of this fund are marked by a special book-plate. The income of \$10,000 of the fund is to provide for an annual course of lectures upon Biblical subjects designated "The Haverford Library Lectures." Unused income from the fund, if any, must be capitalized at the end of each fiscal year.

WILLIAM H. JENKS LIBRARY FUND

Founded in 1910 by gift of \$5,000 from Hannah M. Jenks, widow of William H. Jenks. The fund was first known as "Special Library Fund," but after the death of Hannah M. Jenks was changed, in 1916, to "William H. Jenks Library Fund." The purpose of this fund is that the income shall be used for the care of the collection of Friends' books made by William H. Jenks and given by his widow to Haverford College, and to make appropriate additions thereto. Any income not used for these purposes may be used toward the general needs of the Library. Present book value, \$5,000.00.

MARY WISTAR BROWN WILLIAMS LIBRARY FUND

Founded in 1914 by gift of \$20,000 from Parker S. Williams, '94, as a memorial to his late wife, Mary Wistar Brown Williams. The income only is to be used for the purchase of books for the Library, preferably books coming within the classes of history, poetry, art, and English and French literature. The books purchased with the income of this fund are marked by a special book-plate. Present book value, \$20,306.74.

ANNA YARNALL FUND

Founded in 1916 by residuary bequest of \$13,000 par value of securities with book value of \$7,110, and one-half interest in suburban real estate from Anna Yarnall. Additional amount under bequest was received in 1918. Present book value, \$173,078.14. The real estate was sold in 1923 and netted the College \$164,820.50. The bequest was made for the general use of the Library. The Testatrix says, "I do not wish to restrict the managers as to the particular application of this fund, but desire them to use the income arising from it as in their best judgment and discretion shall seem best, for the purchase of books and manuscripts, book cases, rebinding of books, and, if need be, the principal or portions thereof, or the income or portions thereof, for additions to the pres-

ent Library building, or the erection of new Library buildings. I direct that all books purchased with this fund shall be plainly marked 'Charles Yarnall Memorial' in memory of my father, Charles Yarnall."

F. B. GUMMERE LIBRARY FUND

Founded in 1920 by gift of \$635.41, raised among the students by the Students, Association of the College as a memorial to Professor Francis Barton Gummere. The income only is to be used to buy for the Haverford College Library books on the subjects that he taught or was interested in.

The student's Association voted to raise twenty-five dollars for a special shelf in the Library to be known as the "F. B. Gummere Memorial Shelf." This shelf, with its proper inscription, holds the books purchased by this fund. Present book value, \$635.47.

EDMUND MORRIS FERGUSSON, JR., CLASS OF 1920 MEMORIAL FUND

Founded in 1920 by memorial gift of \$1,000 from the family of Edmund Morris Fergusson, Jr., Class of 1920, who died at the College in his Senior year. The income only is to be used for the maintenance and increase of the Library's Department of English and American Literature. The books purchased with the income of this fund are marked by a special book-plate indicating its source. Present book value, \$1,002.34.

CLASS OF 1888 LIBRARY FUND

Founded Sixth Month 15, 1938, by gifts totaling \$5,250 from members and families of the Class of 1888, on the occasion of their fiftieth anniversary. The conditions of the gift are as follows:

- (1) A fund is to be established, to be known as "THE CLASS OF 1888 LIBRARY FUND."
- (2) The income only of this fund is to be used exclusively for the purchase of books for the Haverford College Library, except as noted below (in Clause 6).
- (3) The fund established now will be added to later by gift or bequest.
- (4) Members of the Class also expect to donate books to the Library, with the understanding that when such books are duplicates of books already in the Library, they may be exchanged for books needed, or sold, and the money so obtained used in the same way as the income of the fund.
- (5) All books purchased by the income of the fund (or obtained as in 4) are to be provided with a special book-plate to be furnished by the Class.
- (6) Income from the Class Fund or moneys obtained by sale of duplicate books may, when necessary, be used for binding or repair of books designated as belonging to the Class collection. Additional donations were made as follows: \$500 in 1939-40; \$100 in 1943-44; \$500 in 1944-45 and \$200 in 1945-46. Present book value, \$6,550.00.

CLASS OF 1918 LIBRARY FUND

Founded Third Month 24, 1938 by gift from the Class of 1918 in commemoration of their twentieth anniversary. The gift was \$1,753.52 of which \$500 was spent for a portrait of the late Rayner W. Kelsey, Professor of History, who died Tenth Month 29, 1934; and the balance of \$1,253.52 was used in establishing a new Library Fund, the income to be used for books. Present book value, \$1,253.52.

QUAKERIANA FUND

Founded 1st Month 8, 1947, by gift of \$600 from President Emeritus William Wistar Comfort '94, as explained in letter from him as follows: "In 1940 some Alumni gave me a sum of money to buy books for myself. This I have done, and now there remains \$600 which I wish to make over to the Corporation, the interest of which may provide books or manuscripts for the Quaker collections. As a compliment to the donors of the fund, I should like the enclosed bookplate to be inserted in such future purchases."

MOHONK FUND FOR THE RUFUS JONES COLLECTION OF MYSTICISM

Founded Third Month 21, 1949 by gifts totaling \$1,500 from members of the Albert K. Smiley family of Mohonk Lake, N. Y.

The gift was made "to make possible additions to the Rufus Jones Collection on Mysticism in the College Library," with the further provision that "it may be used at the discretion of Haverford College, if the purpose for which it is intended should no longer be applicable or desirable."

The fund is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$1,500.

RUFUS M. JONES BOOK FUND

Founded Seventh Month 11, 1949 from bequest of \$5,000 through a deed of Trust established by Rufus M. Jones during his life, "the income only to be used—for the purchase of books on Mysticism, to be added to the Collection of books on that subject," which he turned over to the College a few years before his death.

The fund is designated as the Rufus M. Jones Book Fund, is classified among Library Funds, and is included in Consolidated Investment Account. Book value, \$5,000.

1949 CAMPAIGN LIBRARY FUND

Founded Sept. 1, 1950 by a transfer of \$22,100. from the receipts of the 1949 Haverford Campaign for additional endowment.

The income is to be used to increase funds with which to buy books, and thus maintain the excellence of the Library.

Until otherwise ordered by the Board, 10% of the income is to be capitalized each year; provided that this shall not reduce the yield from the fund below 4%.

A portion of the Capital of this Fund may be expended at the discretion of the Board of Managers in accordance with the policy stated in the Campaign Appeal. Present book value, \$36,912.36

THE CLASS OF 1909 RUFUS M. JONES MEMORIAL LIBRARY FUND

Income from this Fund, established by the Class of 1909 at the 50th Anniversary of its graduation as a memorial to Rufus M. Jones, is to be used for the purchase of books or special reproductions of rare books, in the area of the Humanities, especially in the fields of Mysticism, Religion, Philosophy and Literature as representative of the interests of Rufus M. Jones. Present book value \$1,485.00.

FUNDS FOR PENSIONS

PRESIDENT SHARPLESS FUND

Founded in 1907 by contributions from interested friends of the College, finally amounting to \$40,000. Present book value, \$41,237.08. The income is to be used for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

WILLIAM P. HENSZEY FUND

Founded in 1908 by gift of \$10,000 from William P. Henszey, donated in connection with the raising of the President Sharpless Fund, but kept as a separate fund. Increased in 1909 by legacy of \$25,000 from William P. Henszey. Present book value, \$36,758.66. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

JACOB P. JONES BENEFIT FUND

Founded in 1909 and increased in 1910 by proceeds of land sold for account of Jacob P. Jones legacy. Present book value, \$68,113.78. The income is to be used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. The income from this fund is annually transferred to the Haverford College Pension Fund for old style pensions, or, if not needed for pensions, is capitalized in said fund.

PLINY EARLE CHASE MEMORIAL FUND

Founded in 1909 by transfer to the College of a fund raised in 1887 in memory of Professor Pliny Earle Chase, and amounting to par value of \$4,173.04. The income of this fund is used, as in the President Sharpless Fund, for the teachers and professors of Haverford College as the President of the College and his successors, with the approval of the Board of Managers, may decide. This income is transferred annually to the Haverford College Pension Fund, for old style pensions, or, if not needed for pensions, is capitalized in said fund. Present book value, \$3,272.24.

HAVERFORD COLLEGE PENSION FUND

Founded in 1920 and added to since, being accumulations of income from the President Sharpless Fund, the William P. Henszey Fund, the Jacob P. Jones Benefit Fund and the Pliny Earle Chase Memorial Fund, not needed for pensions. Present book value, \$112,040.73. The income from this fund, together with the income from the four above-mentioned funds, is used for old style pensions. Income not needed for pensions was capitalized until 1932; then any unused income was used toward the College's share in cost of new contributory pensions with the Teachers' Annuity and Insurance Association. Now the old style pensions call for more than the income of all these Pension Funds. When the proper time comes in an actuarial sense, the principal of this fund can be used as well as the income for the old style pensions until they cease.

FUNDS FOR SPECIAL PURPOSES

THOMAS SHIPLEY FUND

Founded in 1904 by gift of \$5,000 from the late Samuel R. Shipley as a memorial to his father, Thomas Shipley. Present book value, \$5,248.00. The income only to be used for lectures on English Literature at the College. In case of actual need, at the discretion of the President of the College, the income can be used for general expenditures.

ELLISTON P. MORRIS FUND

Founded in 1906 by gift of \$1,000 from Elliston P. Morris, '48. The income is to be used as a prize for essays to be written by students on the subject of Arbitration and Peace. "The Elliston P. Morris Prize" of \$40 is given in each year, the competition being open to all undergraduates and to graduates of not more than three years standing.

In 1929, it was determined, with the consent of the family of Elliston P. Morris, that when the prize is not awarded the income may be used for the purchase of library books on arbitration and peace. Present book value, \$1,126.75.

JOHN B. GARRETT READING PRIZE FUND

Founded in 1908 by a gift of \$2,000 par value of bonds by the late John B. Garrett, '54. It was the purpose of the donor to ensure the permanence of a prize or prizes for Systematic Reading, which he had given for a number of years. The prizes were not awarded from 1922 to 1939 on account of default of the bonds. Reorganization has resulted in 1939 in sufficient recovery of value to provide again for this prize. Present book value, \$4,197.87

SPECIAL ENDOWMENT FUND

Founded in 1909 by gift of \$12,000 par value of bonds, book value \$11,800, from an anonymous donor. The income only of this fund to be used "to furnish opportunity for study of social and economic and religious conditions and duties connected therewith, especially from a Christian point of view." The income is used toward the expenses of Summer Schools for Religious Study, which have been held at Haverford and Swarthmore Colleges from time to time, and also for religious education under Friends' care.

On Fifth Month 16, 1930, the Managers adopted the following amendment, made at the suggestion of the donor, now revealed to be John Thompson Emlen, 1900: "If, however, it shall in the course of time be deemed advisable by the President and the Managers that the income of this fund can be used more profitably by the College for other purposes than those herewith stated, it is my desire that they shall act in accordance with their judgment." Present book value, \$9,227.07.

SCHOLARSHIP IMPROVEMENT PRIZE FUND

Founded in 1913 by gift of \$2,000 par value of bonds, book value, \$1,200, from John L. Scull, '05. Present book value, \$2,296.88. The income only to be used to establish two prizes of \$50 and \$45 annually to the two students in the graduating class showing the most marked and steady improvement in scholarship during their college course.

ELIZABETH P. SMITH FUND

Founded in 1915 by bequest of \$1,000 from Elizabeth P. Smith. Present book value, \$1,727.00. The income only to be used as a prize for the best essays on Peace written by students of the College.

S. P. LIPPINCOTT HISTORY PRIZE FUND

Founded in 1917 by gift of \$2,500 par value of bonds, book value, \$2,546.88, from beneficiary of the estate of S. P. Lippincott, '86. The income only to be used as an annual history prize, which is designated "The S. P. Lippincott History Prize." The award is to be made on the basis of a competitive essay. In any year when no award is made, the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$2,546.88.

FRANCIS STOKES FUND

Founded in 1919 by gift of \$5,000 in securities, book value, \$5,000, from Francis J. Stokes, '94, in memory of his father, Francis Stokes, of the Class of 1852, and a Manager of Haverford from 1885 until his death in 1916. The income is to be used for extending the planting of trees and shrubs on the College grounds. The wish is expressed, but not as a binding condition of the gift, that the Campus Club should have the direction of the expenditure of this income. Present book value, \$5,120.30.

GEORGE PEIRCE PRIZE FUND

Founded in 1919 by gift of \$600, and increased in 1920 by further gift of \$400 from Harold and Charlotte C. Peirce in memory of their deceased son, George Peirce, '03. Present book value, \$3,071.60. The income only is to be used for a prize, to be called the George Peirce Prize in Chemistry or Mathematics, to the student who, in the opinion of the Faculty, has shown marked proficiency in either or in both of these studies and who wishes to follow a profession which calls for such preparation. Unused income is capitalized, as requested by the founders of the fund. Present book value, \$4,575.50

LYMAN BEECHER HALL PRIZE FUND

Founded in 1924 by donation of securities of par value, \$2,000, book value, \$1,820, from the Class of 1898 in commemoration of their 25th anniversary of graduation to establish an annual prize of \$100 in Chemistry in honor of Doctor Lyman Beecher Hall, Professor of Chemistry at Haverford College from 1880 to 1917. Present book value, \$2,155.00.

NEWTON PRIZE FUND

Founded in 1925 by donation of five shares of General Electric Co. stock by A. Edward Newton, par value, \$500, and book value, \$1,348.25. The income only is to be used for "The Newton Prize in English Literature to the undergraduate who shall submit the best essay on some subject connected with English literature." In 1930, the award was changed to be on the basis of Final Honors, and in any year when no award is made the income is to be used for the purchase of library books in the field of the unawarded prize. Present book value, \$1,397.75.

EDWARD B. CONKLIN ATHLETIC FUND

Founded in 1925 and added to in 1926, 1927 and 1929 by Frank H. Conklin, '95, in memory of his brother, Edward B. Conklin, '99. Present book value, \$2,400.00. The income is to be used without restriction in any branch of athletics.

EDWARD WOOLMAN ARBORETUM FUND

Founded in 1928 by setting aside \$5,000 from proceeds from sale of 5.811 acres of land on the southern boundary and southeast corner of the College farm, and added to by gift in 1951 (through 1949 Campaign) of \$4,775 and by bequest of \$5,000 from Edward Woolman, Class of 1893,

who died March 11, 1960, the income only is to be used for the preservation and maintenance and for increasing usefulness and natural beauty of the Arboretum, bird sanctuary and grounds of the College, until otherwise ordered by the Managers. The present book value is \$14,362.75.

WILLIAM ELLIS SCULL PRIZE FUND

Founded in 1929 by William Ellis Scull, '83, by a gift of \$2,000. The income is to be used annually, so long as the Managers may judge expedient, as a prize to be awarded at Commencement by the Faculty to that upper classman who in their judgment shall have shown the greatest improvement in voice and the articulation of the English Language. The prize is to be known as "The William Ellis Scull Prize." Present book value, \$2,000.00.

PAUL D. I. MAIER FUND

Founded Tenth Month 7, 1936, by bequest of \$1,000 from Paul D. I. Maier, '96, of Bryn Mawr, Pa. The bequest provides for the continuance of the Class of 1896 Prizes of \$10 each in Latin and Mathematics, and any balance of income is to be used for general purposes. Present book value, \$1,000.00.

STRAWBRIDGE OBSERVATORY MAINTENANCE FUND

Founded Second Month 13, 1937, from donations of \$5,627.37 from members of the Strawbridge family, being the amount in excess of the actual cost of the rebuilding and reequipping of the William J. Strawbridge, '94. Memorial Astronomical Observatory. The income is used for the maintenance and equipment of the observatory. The principal can be used for additional equipment, if so determined by the Board of Managers. In 1938 and 1939 an astrographic camera was so purchased at a cost of \$1,787.83. Present book value, \$3,839.54.

C. WHARTON STORK ART FUND

In First Month, 1930, C. Wharton Stork, of Class of 1902, donated to the Corporation securities of a then value of \$69,000 on account of a contemplated gift for the purpose of erecting, equipping, and furnishing an Art Museum at the College. Purchases were made by C. Wharton Stork of paintings, which are hung in the Library. This fund is to be liquidated and is not included in the total of the funds.

JACOB AND ENGENIE BUCKY MEMORIAL FOUNDATION

Founded Sixth Month 4, 1942 by gift of \$2,000.00 from Colonial Trust Company of New York and Solomon L. Fridenberg of Philadelphia, co-trustees under the will of Eugenie Bucky, deceased (late of New York), the income only to be used. At the same time accumulated income of \$2,000.00 was also donated as Bucky Foundation Gift, this amount to be available for use for the same purposes as the income of the Foundation. Extracts from Mrs. Bucky's will and codicils in reference to the purposes of the Bucky Foundation are here made as follows:

"The purpose or object of such a Foundation or Fund is and shall be for the encouragement of them who seek new truths, and who endeavor to free and clear from mystery and confusion our knowledge concerning God¹; and thereby to enforce more effectively the common laws of mutual love and obligation, peace and goodwill, between and among our several creeds, races, nations, and markets.²

"My aim, intention, purpose and object is to help in promoting piety among men, enlightening their ignorance and bettering their condition, by making more and more extensive and by spreading among the public at large not only the preaching but also the practicing of the words of the . . . American motto 'In

God We Trust,' and of the . . . Preamble to the Constitution for the United States of America. I believe and therefore I aim, intend and purpose that the uplifting of men, women and children to the standard of life taught in the Scriptures and the Constitution for the United States of America is indeed the work of Charity, dispels ignorance, inculcates generous and patriotic sentiments, and fits the public groups and the individual men or women for their good usefulness in the American Commonwealth."

1. Associated with the American motto "In God We Trust."

2. Associated with the Preamble of the Constitution for the United States of America—"to form a more perfect union, establish justice, insure domestic tranquility, provide the common defense, promote the public welfare, and secure the blessings of liberty to ourselves and our posterity."

In 1945-1946 and 1954-1955 further gifts from the Trustees were added to the fund, Unused income, if any, has also been capitalized. Present book value, \$7,361.59

MATHEMATICS DEPARTMENT PRIZE FUND

Founded May 20, 1943 from gifts totaling \$900.00 of members of the Mathematics faculty and others. A further gift of \$125 was made in 1943-44. The unused income is added to principal. This capitalized the annual prizes that had been given by the Mathematics professors for many years.

The Mathematics Department Prizes for freshmen, \$25.00, are awarded annually, in competition, by examination. Present book value, \$1,745.40

WILLIAM T. ELKINTON FUND

Founded Ninth Month 6, 1944, by bequest from William T. Elkinton, of Philadelphia, arising from a Trust set up by him during his lifetime. The principal was \$2,491.50 and income received, \$11.11, a total of \$2,502.61. After the death of a life beneficiary, the Trust provided: "to pay over, assign and transfer one of said equal parts unto the Corporation of Haverford College (a corporation of the State of Pennsylvania); the principal fund thus passing to said Corporation to constitute a part of such endowment as may be established at Haverford College as a fitting memorial of Friends' relief work abroad, which memorial 'should foster the peaceful relations of the United States with foreign countries by acquainting our youth with the principles of European governments and with international problems'; provided however, that if no such Endowment should be established at Haverford College prior to the expiration of one year after the principal of the Fund hereby conveyed becomes distributable under the provisions of this deed, the said one-third part of the fund hereby conveyed shall be devoted by the Corporation of Haverford College for such other purpose as the Trustees acting hereunder, their survivor or successor, shall designate, preferably for the furtherance of education in some form at Haverford College or for providing assistance in the form of scholarships to promote education."

In accordance with a suggestion from President Morley, concurred in by Thomas W. Elkinton representing the Trustees, the Managers voted on Ninth Month 22, 1944, that "the income until otherwise directed, is to be used for traveling and other expenses in the attendance at intercollegiate conferences for discussion of international problems by representatives of the International Relations Club at Haverford." The Trustee further stated "as long as the activities of the Club are closely related to 'acquainting our youth with the principles of European governments and with international problems,' the use of the income by the Club would be satisfactory."

TILNEY MEMORIAL FUND

Founded in First Month, 1945, by gifts totaling \$2,000 by I. Sheldon Tilney, 1903, in memory of his parents, John S. and Georgiana E. Tilney. The income is to be used "to try to influence the student body towards a more religious viewpoint of life." Permission was also granted by the donor that "the income may be used also in connection with a scholarship for students in the field of Philosophy or Biblical Literature."

In 1945-1946 the fund was increased to \$5,000, by gifts of \$1,000 from Georgiana S. Kirkbride and \$2,000 from Robert W. Tilney, sister and brother of I. Sheldon Tilney. In 1948-49 a further gift of \$250 was received from I. Sheldon Tilney. In 1949-50 a further gift of \$1,000 and in 1952-53 \$500 was received from I. Sheldon Tilney. Present book value, \$7,000.

CLASS OF 1902 LATIN PRIZE FUND

Founded Second Month 2, 1945, by gift from Class of 1902 of \$142.90, being proceeds of sale of security formerly purchased and held by the Class to perpetuate a Latin Prize of \$10 annually at Haverford. The Class had donated the income for this prize since 1913. An unused balance of \$39.00 of such donations was transferred to the income account of this fund.

CLASS OF 1898 GIFT

Founded Sixth Month 12, 1948, by contributions totaling \$6,100 from members of the Class of 1898 as a 50th Anniversary Gift of their graduation. The conditions of the gift were "For a period of 25 years the income only produced by the fund is to be used to pay the expenses of lectures at the College by qualified persons on such subjects and at such times as the President of the College, with the advice of the Faculty, may think best, including at the discretion of the President, conferences between the lecturers and the students. After August 31, 1973, the income and/or principal of the fund, may, at the discretion of the Board of Managers, be used for any purpose in connection with the College." Present book value is \$6,315.00.

EDMUND J. LEE MEMORIAL AWARD FUND

Founded Eighth Month 31, 1948, by donations totaling \$906.50 from members of the Class of 1943 on the occasion of their Fifth Reunion. The Class desired "to perpetuate the memory of Edmund Jennings Lee, 2nd, its sole member killed in the past war, and to stimulate in the College that spirit of service for which he was known. In 1948-1949 a further gift of \$100 was received from Miss Mildred W. Lee, sister of Edmund J. Lee.

"The proceeds from the invested fund shall be used to establish an annual award to be known as the Edmund J. Lee Memorial Award to be awarded annually beginning in 1949, to the recognized undergraduate organization which has contributed most toward the furtherance of academic pursuits, extra-curricular activities, spiritual growth, or college spirit, in individuals or in the College as a whole during the year. The Award is to be used by its recipient in continuing to render such service."

THE DAVID R. BOWEN PREMEDICAL FUND

Established in 1950 by the family and friends of the late Dr. David R. Bowen, who, regretting a definite lack in his own training, believed strongly that men preparing to be physicians should receive a basic liberal education of the kind offered at Haverford College. The income is to be used at the discretion of the President of Haverford College, to purchase books for the use of premedical students, pay for professional magazine subscriptions, for lecturers, or for any other projects closely related to premedical training. Further gifts have been made yearly to the fund. Present book value, \$902.55.

JONATHAN & RACHEL COPE EVANS FUND

"Founded in 1952, through gifts to the 1949 Campaign by the children and grandchildren of Jonathan and Rachel Cope Evans. The principal is to be invested and the income used one-half for scholarships and one-half for the purposes of the Rufus M. Jones Fund for Advancement of Teaching. If, however, at the expiration of twenty-five years the Board of Managers deems it advisable to use the income, or if necessary the principal, of the Fund for other purposes, it shall be free to do so." A further gift was made in 1952-53 of \$500. Present book value is \$15,043.62.

EDWARD HAWKINS MEMORIAL FUND

Established in 1953 by a gift to the College from the Class of 1937. The Fund is given in memory of Edward Hawkins; a member of that class.

The income to be used for the purchase of equipment required for intramural athletics. If such becomes impracticable, the income is to be used as directed by the Managers. Present book value is \$1,457.44.

WILLIAM W. BAKER PRIZE FUND

"Founded in 1954 by bequest of \$500.00 from Mertie Gay Baker, who died January 31st, 1954, the fund is to be invested and the income given as a prize in the study of Greek. If the study of Greek at the said College should be discontinued, I direct that the income be given as a prize for the study of Latin and should the study of Latin be discontinued, I direct that the income be used as a prize in the study of Ancient History or Biblical Literature."

JOHN G. WALLACE AWARD FUND

This fund established in 1958 by a gift from John G. Wallace and added to annually, is to be used toward the purchase and maintenance of a best actor award cup for Class Night, "and the awarding each year of a silver plated replica of the trophy to the recipient of the award." Present book value \$200.00

CHRISTIAN RELIGION AND THOUGHT FUND

Founded in 1958 by a special grant from an anonymous source, this amount is to be used to establish a fund for purposes connected with the problems of Christian religion and thought.

Until otherwise directed by the Board, the income may be used as directed by Professor Douglas Steere, and the administration of the college; the principal may be expended from time to time upon their recommendation and at the discretion of the Board of Managers for the above purposes. The present book value of the fund is \$4,000.

THE KURZMAN PRIZE FUND

"This fund was established in 1958 by Harold P. Kurzman of New York, to provide a prize for the senior who has generally performed best and most creatively in political science course work. This prize, initially established in the amount of \$125, was given in appreciation of the benefit to Harold P. Kurzman, Jr., '58, from his work in the political science department. In any year when it is the judgment of the department that no work has been performed of sufficient merit to warrant this award, the funds shall be used to purchase books in this field for the Library or shall be expended in other ways for the benefit of the department. Surplus income also may be used in this manner. Present book value \$2,784.38.

FUNDS WITHDRAWN

The following funds left to the college with no restrictions, have been wholly consumed to meet in part the Corporations' share of the Building Program of 1953-1956:

Ellen Waln Fund
Henry Norris Fund
Clarence W. Bankard Fund
Mary Brown Fund
Emma Ridgway Comly Fund
Mary K. Comly Fund
Charles J. Rhoads Fund

STATED MEETINGS OF THE CORPORATION AND THE MANAGERS

The Annual Meeting of "The Corporation of Haverford College" is held in Tenth Month at such time and place as the Board of Managers may determine.

The Stated Meetings of the Managers will be held on the third Sixth-day of First, Third, Fifth, Ninth and Eleventh months.

LEGACIES

The friends of the College, including former students, and all who are interested in the promotion of sound learning, are invited to consider the College in the disposition of their estates by will.

FORM OF BEQUEST OF PERSONAL PROPERTY

I give and bequeath, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, the sum ofDollars.

FORM OF DEVISE OF REAL ESTATE

I give and devise, free and clear of all estate, inheritance or other similar taxes, unto The Corporation of Haverford College, its Successors and Assigns, in fee, the following described real estates: (Here describe the real estate.)

HAVERFORD COLLEGE

NOV 2 1960

HAVERFORD, PA.

HAVERFORD COLLEGE BULLETIN



Directory, 1960—1961

VOLUME LIX

NUMBER FOUR

April, 1961

Issued quarterly by Haverford
College, Haverford, Pennsylvania

Entered as second-class matter November 2, 1944, at the Post
Office at Haverford, Pa., under the Act of August 24, 1912.

Printed in U.S.A.

CALENDAR

1960-1961

New students arrive Tuesday afternoon.....	Sept. 20
Registration of all new students.....	Sept. 22 & 23
Returning students arrive, beginning Sunday afternoon.....	Sept. 25
Beginning of College year with Collection 11 A.M.....	Sept. 26
Registration of returning students to be filed by 4:30 P.M.....	Sept. 26
First semester classes begin 8 A.M.....	Sept. 27
Saturday (Swarthmore Day) no classes.....	Nov. 19
Thanksgiving vacation begins 1 P.M.....	Nov. 23
ends 8 A.M.....	Nov. 28
Registration (Spring Term).....	Dec. 6, 7, 8
Christmas vacation begins 12 noon.....	Dec. 17
ends 8 A.M.....	Jan. 3
First semester program ends 6 P.M.....	Jan. 19
All papers assigned must be turned in by 4 P.M.*	
Mid-year examinations (dates inclusive)**.....	Jan. 21 to Feb. 4
Spring semester classes begin 8 A.M.....	Feb. 6
Spring vacation begins noon	Mar. 25
ends 8 A.M.....	Apr. 4
Applications for Scholarships.....	Apr. 15
Major Registration cards for men in the Fourth term must be filed by 4 P.M....	Apr. 15
Manuscripts in competition for prizes must be filed in the Registrar's office by 4 P.M.....	May 1
Registration (Fall Term).....	May 3, 4, 5
Second semester classes end 12 noon.....	May 20
Senior Comprehensive Examinations (dates inclusive).....	May 22, 23, 24, 25
Final Examinations (dates inclusive)**.....	May 23 to June 6
Commencement	June 9

*If a paper is assigned in place of the final examination in a course, the date by which it is due may be set by the instructor not later than 4 P.M. on Tuesday of the final week of the examination period, or for seniors in their final semester, noon on Monday of that week. Late papers will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean.

****Laboratory notebooks must be turned in not later than the scheduled time of the examination in the course. Late notebooks will receive no credit unless arrangements have been made *in advance* with the instructor in the course and the Dean. In courses which have no scheduled examination, notebooks must be turned in by 4 P.M. on Tuesday of the final week of the examination period.**

1960

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Sept.					1	2	3	Nov.			1	2	3	4	5
	4	5	6	7	8	9	10		6	7	8	9	10	11	12
	11	12	13	14	15	16	17		13	14	15	16	17	18	19
	18	19	20	21	22	23	24		20	21	22	23	24	25	26
	25	26	27	28	29	30			27	28	29	30			
Oct.							1	Dec.					1	2	3
	2	3	4	5	6	7	8		4	5	6	7	8	9	10
	9	10	11	12	13	14	15		11	12	13	14	15	16	17
	16	17	18	19	20	21	22		18	19	20	21	22	23	24
	23	24	25	26	27	28	29		25	26	27	28	29	30	31
	30	31													

1961

	S	M	T	W	T	F	S		S	M	T	W	T	F	S
Jan.	1	2	3	4	5	6	7	Apr.							1
	8	9	10	11	12	13	14		2	3	4	5	6	7	8
	15	16	17	18	19	20	21		9	10	11	12	13	14	15
	22	23	24	25	26	27	28		16	17	18	19	20	21	22
	29	30	31						23	24	25	26	27	28	29
									30						
Feb.				1	2	3	4	May		1	2	3	4	5	6
	5	6	7	8	9	10	11		7	8	9	10	11	12	13
	12	13	14	15	16	17	18		14	15	16	17	18	19	20
	19	20	21	22	23	24	25		21	22	23	24	25	26	27
	26	27	28						28	29	30	31			
Mar.				1	2	3	4	June					1	2	3
	5	6	7	8	9	10	11		4	5	6	7	8	9	10
	12	13	14	15	16	17	18		11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30	31			25	26	27	28	29	30	

College days in heavy-face type.

CAMPUS ACTIVITIES CALENDAR
1960-1961

September

- 20-24 Freshman Orientation
- 22-23 Registration of all new students
- 26 Collection, beginning of college year
- 26 Registration of returning students
- 27 First semester classes begin
- 30 Freshman mixer at Bryn Mawr

October

- 1 Football - Wagner
- 8 Soccer - Franklin & Marshall
- 8 Cross Country - PMC
- 8 Return mixer at Haverford
- 12 Soccer - Penn
- 14-15 Sophomore Weekend, a festive weekend
- 15 Soccer - Lehigh
- 15 Sophomore Dance
- 16 Dept. of Music Concert
- 22 Soccer - Stevens
- 29 Football - PMC
- 29 Homecoming Day
- 29 Soccer - LaSalle
- 30 Friends of Music

November

- 2 Caucus Club Debate
- 5 Parents' Day
- 5 Football - Ursinus
- 5 Haverford-Bryn Mawr all-college mixer
- 8 Student-Faculty Relations Election Returns party
- 12 Cross Country - Swarthmore
- 12 Glee Club with Cedar Crest
- 18-19 Varsity Club Weekend, a festive weekend
- 19 Football - Swarthmore
- 19 Soccer - Swarthmore
- 19 Varsity Club Dance
- 23-28 Thanksgiving Vacation

December

- 3 Basketball - Drew
- 4 Friends of Music
- 7 Basketball - Pharmacy

December

- 10 Basketball - Johns Hopkins
- 10 Wrestling - Delaware
- 12 Christmas Concert
- 14 Wrestling - Albright
- 17- Jan. 2 - Christmas vacation

January

- 5 Fencing - Princeton
- 11 Basketball - Drexel
- 14 Basketball - Stevens
- 19 First semester classes end
- 21- Feb. 4 - Midyear Examination

February

- 6 Second semester classes begin
- 8 Basketball - Ursinus
- 8 Wrestling - Moravian
- 8 Fencing - Lehigh
- 10-11 Freshman Weekend, a festive weekend
- 11 Basketball - Swarthmore
- 11 Wrestling - Drexel
- 11 Fencing - Temple
- 11 Freshmen Dance
- 18 Basketball - PMC
- 19 Dept. of Music Concert
- 22 Basketball - Franklin & Marshall
- 24 Orchestra
- 25 Fencing - Johns Hopkins
- 26 Friends of Music
- 28 Nominations for officers of Students Association

March

- 9-10 Class Night
- 10-11 Junior Weekend, a festive weekend
- 11 Junior Dance
- 14 Finals for Election of Officers of Students Assoc.
- 25- April 4 - Spring Vacation

April

- 5 Baseball - PMC
- 8 Baseball - St. Joseph's
- 8 Tennis - Rutgers
- 8 Track - Albright & Lycoming
- 9 Glee Club Concert

April

- 12 Baseball - Eastern Baptist
- 12 Golf - Moravian
- 15 Major Registration ends
- 15 Baseball - Drexel
- 15 Track - Lehigh
- 16 Friends of Music
- 21 Arts Council
- 22 Tennis - Ursinus
- 26 Tennis - Bucknell
- 26 Golf - LaSalle & St. Joseph's
- 28-29 Track - Penn Relays
- 28 Golf - Swarthmore
- 28 Orchestra Concert
- 29 Baseball - Swarthmore

May

- 3 Baseball - Pharmacy
- 3 Tennis - Lafayette
- 3 Track - Franklin & Marshall
- 3, 4, 5 Registration for Fall term
- 6 Alumni Day
- 6 Baseball - Ursinus
- 6 Tennis - Lehigh
- 9 Golf - Lafayette
- 12-13 Combined Drama and Glee Club production
- 13 Tennis - Penn
- 17 Baseball - Delaware
- 20 Second semester classes end
- 22-25 Senior Comprehensive examinations
- 23- June 6 - Final Examinations

June

- 9 Commencement

No variations or additions are permitted without the consent of the Student Affairs Committee.

Students arranged by Class in which they are
enrolled during the first semester of 1960-61.

FRESHMAN CLASS

Aird, John C.	Kanes, Lee S.
Andrews, Edward S.	Kurian, Stephen C.
Bates, Robert H.	Larkin, E. Daniel
Berman, Bernard J.	Leppik, Ilo E.
Birmingham, Lewis W.	Lerner, David E.
Bockol, Richard M.	Levin, Murray S.
Brinton, Keith	Lewis, Charles D., III
Bundy, James F.	Lippard, Thomas E.
Carson, Frederick G.	Lob, Eric, Jr.
Chamberlin, John S.	Lucas, Peter W.
Coblentz, Jay M.	Luke, Richard F.
Cook, David G.	Macan, William A., IV
Cook, Michael J.	MacDowell, Peter P.
Cooper, Richard M.	Macmillan, Neil A.
Couch, George N.	Major, John S.
Crum, Jonathan R.	Malandra, William W.
Cummings, J. Timothy	McDougal, Stuart Y.
Dallolio, Stephen J.	McKeon, Michael
Darnell, John H.	Mick, Robert L.
DeWilde, Daniel N.	Mitchell, R. Garrett
Dodd, Terron K.	Munger, Robert S., Jr.
Donaldson, James O., III	Nelson, Michael S.
Eisele, John W.	Nevin, Michael P.
Ellis, John R.	Olton, David S.
Elmer, Robert E.	Oyelaran, Olasope O.
Fales, Evan M.	Pearlstine, I. Norman
Filstrup, Edward C.	Phipps, Ralph D.
Gardner, Darien A.	Popper, Frank J.
Glass, Christopher C.	Ratajczak, Donald
Gordon, John A.	Reed, Thomas A.
Harris, Ruffin K.	Reinfeld, Don J.
Harshaw, Edward, II	Richardson, Robert F.
Haymond, Robert M.	Riordan, Robert C.
Henderson, Phillip L.	Robertson, Richard A.
Holland, John K.	Robinson, Harry M., III
Hopper, Paul T.	Ruppenthal, John B.
Ings, William C.	Salmen, Lawrence F.
Jackson, David M.	Sargent, George A., III
Jacobs, Christopher	Scherer, Peter W.
Jones, J. Morrow	Schofield, Robert D.
Kabat, Jonathan P.	Seagren, Barry D.

Shafer, William A.	Tulloch, Bruce A.
Shapiro, Ronald M.	Van Berg, Richard P.
Shoemaker, John C.	Van Cleave, James W., III
Shuman, Robert M.	Vinton, Jay E.
Silvers, David N.	von Ranson, Jonathan J.
Smith, Edward J., Jr.	Wademan, Ross L.
Smoluk, John R.	Ward, Stephen A.
Snow, Robert M.	Wertime, Richard A.
Snyder, William B.	Whittington, DeWitt
Sonnenborn, Monroe R.	Wightman, Frederic L.
Spaeth, J. Douglas	Wilcox, Homer B., III
Standing, Theodore G., Jr.	Williams, Eliot P.
Sterrett, Timothy S.	Williams, John A.
Stewart, Charles V.	Williamson, Alan B.
Strang, Charles L.	Wolin, Steven A.
Stulting, Harry C.	Wood, Arthur S.
Sunderman, Joel B.	Yaffe, David L.
Todaro, Michael P.	Zangerle, John A.
Tomaro, John B.	

SOPHOMORE CLASS

Andrews, Raymond W., Jr.	Ettinger, Stephen J.
Auer, Lawrence H.	Ezerman, Robert H.
Barlow, Barry H. A.	Fasoldt, Ranson C.
Barnett, Gordon T.	Flanders, Steven
Bates, David T.	Foerster, Bruce S.
Beik, William H.	Franklin, Joseph E., Jr.
Belanger, Terry B.	Geddes, James F., Jr.
Bernheimer, Charles C.	Ghiglione, Loren F.
Bibber, Henry G.	Gilbert, Ian R.
Blumberg, Herbert H.	Gillam, B. Scott
Blumenthal, James D.	Grambs, Jeffrey W.
Bobrovnikoff, Stephen P.	Hall, David B.
Bowles, Francis P.	Hammaker, Wayne E.
Carroll, John S.	Harter, Gerald M.
Cole, John R.	Hartman, Edwin M.
Conn, Charles B., III	Herzel, Roger Wm.
Cook, John R.	Heuss, John F.
Crane, Alan T.	Hilliard, Kirk L., Jr.
Daneker, David C.	Hiltebeitel, Alfred J.
Darlington, Horace F., Jr.	Hogenauer, Daniel O.
David, Stuart Roy	Hole, A. David, III
de Ris, G. Raymond	Houston, George W.
Dorwart, William V., Jr.	Houston, John D., II
Eddy, Peter A.	Hunt, David

Johnson, John P.
Johnson, Stephen C.
Kannerstein, Gregory
Kauffman, Christopher P.
Kelley, William S.
Kessinger, Thomas G.
Kohn, Roger L.
Lary, Peter H.
Lawn, W. Geoffrey
Learned, William D.
Lehner, Andreas P.
Leonard, David K.
L'Etoile, Barry M.
Levi, William G.
Levitt, Stuart L.
Liesveld, John H., Jr.
Lipez, Kermit V.
Macclay, G. Jordan
MacRae, James B., Jr.
Margolis, John D.
Maxfield, Clark N.
McConaghy, John S., Jr.
Mechling, William H., III
Mervine, William R.
Miller, Robert F.
Mitchell, David W.
Morrisey, Charles Wm.
Moyer, Paul R.
Noell, K. Thomas
Nolte, Robert W.
Norberg, H. Peter
Northrup, Ernest T.
Oelkers, Wilson H., Jr.
Phillips, William H.
Pollard, Frank H.
Powers, Charles Wm.
Quill, E. Spencer
Quint, Arnold H.
Raach, Frederick E.

Richardson, James I.
Richardson, Thomas W.
Riggan, William G.
Roberts, John H.
Rose, Timothy L.
Ruberg, Robert L.
Ruff, John D.
Saint, Harry F.
Schamberg, Jay F.
Schulze, Joseph R.
Schweitzer, Thomas M.
Schwentker, Edwards P.
Shermer, William B.
Siegel, Andrew
Smiley, Daniel C.
Smith, Charles W.
Smith, George P.
Smith, Kent G.
Smith, Stephen S.
Spring, Michael H.
Stanley, Frank J., III
Stavis, Benedict R.
Stone, Alan N.
Taylor, Joseph H., Jr.
Thrall, Charles A.
Unger, Richard W.
Vincent, Anthony F.
Walton, Anthony J.
Weber, Michael J.
Werner, Michael W.
Wertime, John T.
Westberg, Russell E.
White, Robert A.
Williams, Lindsley
Williams, Neil K.
Wilson, Peter N.
Winterer, Joerg C.
Wood, John S.
Worth, Fred R.

JUNIOR CLASS

Adams, Donald W.	Hoopes, James B.
Adams, Jack R.	Jenkins, Harold D.
Akashi, Norio	Jenks, Robert H.
Allendoerfer, Robert D.	Klinger, Forrest E.
Aronoff, Michael S.	Knox, Hugh W.
Baehr, Joel D.	Kovacsics, Gyula
Baldwin, Malcolm F.	Krone, Philip S.
Barlow, Thomas J.	Lane, Peter O.
Bemis, Robert	Larson, Lex K.
Blair, John F.	Lederberg, Bernard A.
Blauvelt, Gerritt H.	Lewis, Timothy
Block, James A.	Linville, Robert W.
Borton, James W.	Lippard, Stephen J.
Bower, John R.	Lynn, Robert W.
Brown, William M.	MacLeod, Kenneth A., Jr.
Burgin, James M.	Mears, Preston K., Jr.
Cocke, Charles L.	Meyer, James I.
Cooper, Jeffrey M.	Middleton, J. Howard, Jr.
Dahlberg, James E.	Miller, Stephen H.
de Luca, Robert N.	Morgan, Kenneth S.
De Nie, Franz M.	Musgrove, Philip A.
Deshong, Howard	Nakayama, Ken
Erb, William H.	Natelson, Ethan A.
Faulhaber, Gerald R.	Parker, Richard B.
Fisher, Stephen W.	Parker, William E.
Flaccus, Jonathan	Penn, Richard D.
Fowler, Albert W.	Petraske, Alan R.
Fowler, Robert B.	Pilbrow, David W.
Fox, John D.	Robinson, Charles R.
Freedberg, Richard G.	Rodell, Michael
Freeman, George W.	Roever, Frederick H.
Freilich, William B.	Russell, Gregory R.
Gaetjens, David L.	Sah, Benn C.
Gage, Vance A.	Salisbury, Roger E.
Garrett, Peter K.	Sanford, Frederic G.
Gray, Harold S.	Sedwick, Wallace D.
Gwatkin, Davidson R.	Sharpless, Thomas K.
Hampden, Michael D.	Shillock, John C.
Hartman, Mark L.	Snider, Donald L.
Hauri, Theodor M.	Spiegel, Adam
Helsingier, Howard M.	Stafford, Craig F.
Hemmingway, David H.	Stanley, Matthew W.
Hirst, John A.	Steigman, William F.
Holtzman, Garry L.	Stevenson, Karl W.

Strickler, Matthew M.
Tai, George M.
Talbot, David N.
Tannenbaum, Robert S.
Turner, Daniel S.
Van Cleave, Richard M.
Van Denbergh, Ross
Waddell, Lucian A.

Waite, Stephen V. F.
Warfield, Robert B.
Watkins, Charles B.
Weyand, James G.
Williams, John G.
Williams, John S.
Yearley, Lee H.
Zobian, Edward J.

SENIOR CLASS

Abrams, Robert
Adams, Gordon W.
Alderson, Evan W.
Allen, J. W. Linn
Alving, Carl R.
Armstrong, Alan W.
Arny, Thomas T.
Baker, David R.
Ballard, Alexander, Jr.
Beggs, Thomas A.
Behling, George R.
Belsley, David A.
Besdine, Richard W.
Blanchard, James T.
Bonner, Hugh, Jr.
Boshes, Roger A.
Bowen, David
Briod, Marc E.
Brobyn, Robert J. F.
Brown, Peter G.
Callan, Curtis G., Jr.
Caplan, Richard L.
Chace, William M.
Challis, David J.
Craig, William A.
Cucinotta, Anthony J.
Decker, Douglass A., Jr.
Del Bello, Thomas M.
Dent, Walter J.
Dohan, Michael R.
Edgar, William H.
Elkins, Joseph H., Jr.
Fenander, Elliot W.
Fernsler, George L., Jr.
Fox, Peter D.

Furstenberg, Frank F., Jr.
Gary, Melvin L.
Gillmor, Richard P.
Goodman, Oscar B.
Gould, John W.
Griffith, Martin G.
Grose, William R., II
Groves, Roger L.
Hanson, David P.
Hanson, John P.
Harvey, Robert B.
Hatch, Edward L.
Heilman, J. Daniel
Henderson, Thomas A.
Hetzel, Henry T.
Hoffmann, Erik P.
Holsoe, Svend E.
Hoppin, Nicholas
Houston, William A.
Howard, C. Boyd
Howe, John S., Jr.
Jernquist, Peter B.
Jones, Stark G.
Kelly, C. Robert
Kimmich, Christoph M.
Klineberg, Stephen L.
Larson, Jeffry K.
Lehfeldt, Martin C.
Linthicum, Alexander
Lockey, Richard F.
Martin, Robert L.
Matchett, Noel D.
Matsuura, Koichiro
McLean, Hugh C.
Mechling, Edward A., II

Meyers, N. Marshall
Miller, Andrew L.
Olsen, Gary K.
Parker, Robert M.
Paskow, Alan K.
Pelouze, H. Pierce, III
Pendleton, James N.
Pierce, E. Everett, III
Pierson, Daniel H.
Platenius, Peter H.
Quinter, Ralph D., III
Ramseyer, Stephen F.
Rauch, Richard M.
Read, William C.
Reiner, Edward
Rhoads, George G.
Ritter, Eugene K., Jr.
Schambelan, Howard L.
Schramm, Lawrence P.
Scott, Leighton R., Jr.
Shelton, Frank W.
Showe, Michael K.
Silverblatt, Edward R.
Smillie, James B.

Smith, Jere P.
Smith, Lewis F.
Souders, Thomas B.
Speakman, William H., III
Stein, George H., Jr.
Stokes, Francis J., III
Swan, Frederick C.
Swift, John K.
Taylor, Harold E.
Taylor, Hollinshead N., III
Thompson, Mark E.
Threadgill, F. Dycus, Jr.
Tillis, Alan C.
Trabert, Kenneth K.
van der Veen, Jan H.
Vernon, Steven K.
Walling, William E., Jr.
Weil, Michael R.
Wenzel, Richard P.
Wills, John W., Jr.
Wolff, Peter
Young, Frank H.
Ziegenfuss, Jay F., Jr.

SPECIAL STUDENTS

Haack, Dietmar H.
Snyder, Martin
Wichura, Michael J.

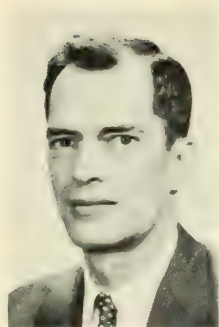
GRADUATE STUDENTS

Fraser, Thomas M., Jr.
Yoon, Hyun

Administration



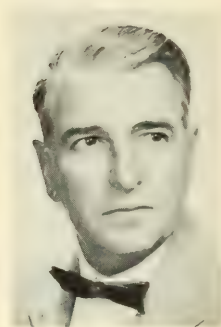
W.W. AMBLER



W.C. BAKER



P.G. BENNETT



H. BORTON



W.E. CADBURY



E.M. CARR



A. CASELLI



F.D. COMFORT



B.S. COOPER



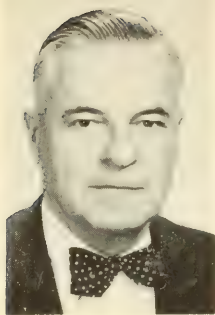
B. KRATZ



R.D. KUBIK



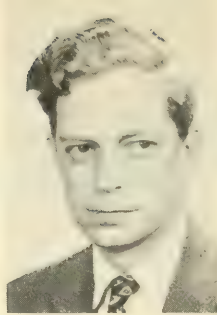
W.W. LANDER



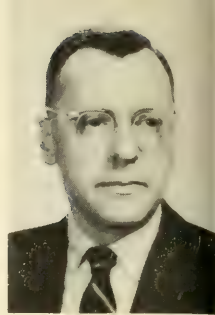
A. MAC INTOSH



M. R. NUGENT



C. PERRY



C. R. THOMPSON

Faculty



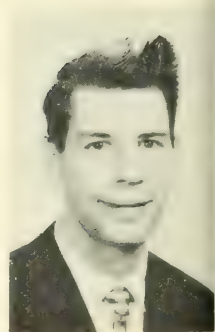
P. W. BELL



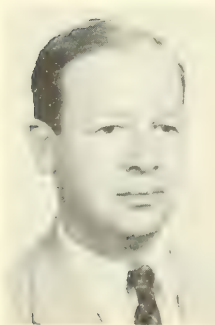
T. A. BENHAM



L. BIDWELL



J. BROOKS



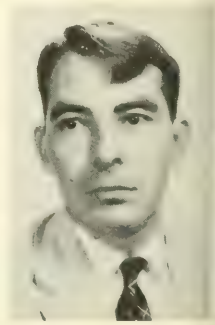
R. H. BUTMAN



J. R. CARY



B. COOK



GUY DAVENPORT



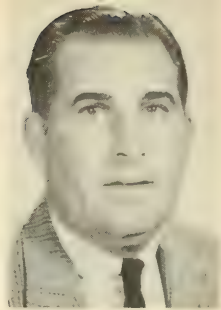
J. DAVISON



P. DESJARDINS



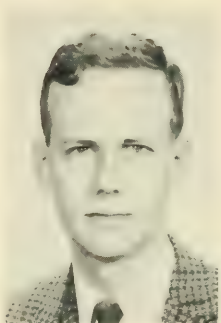
A. DIAMANT



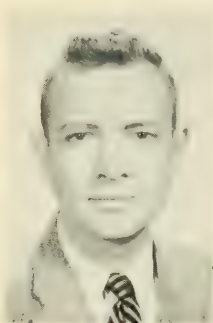
W. DOCHERTY



T. E. DRAKE



H. C. DUNATHAN



I. FINGER



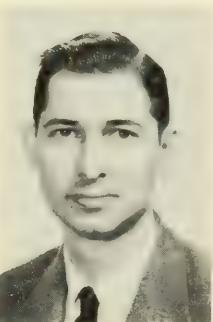
J. FLIGHT



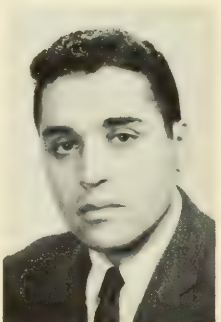
J. FOWLE



J. GELLENS



H. GLICKMAN



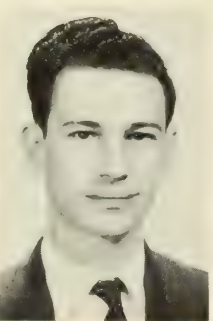
H. B. GOLDBERG



L. GREEN



F. J. GROTEN



M. GUTWIRTH



PAUL HARE



J. HARPER



T. B. HETZEL



C. HOLMES



R. L. HORN



NORMAN HUDAK



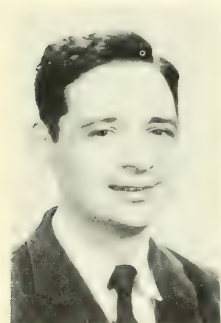
H. HUNTER



G. A. KENNEDY



W. MAC CAFFREY



C. F. MAC KAY



J. MARIES



S. S. MC NEARY



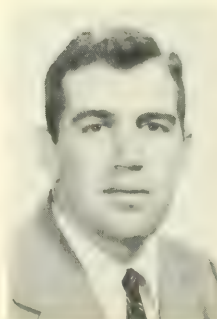
F. H. PARKER



H. W. PFUND



E. H. PRITCHARD



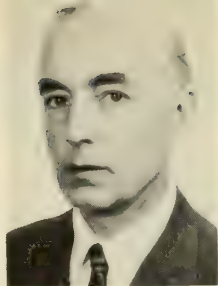
E. PRUDENTE



R. E. RANDALL



H. RANKEN



W. REESE



MRS. REID



I. REID



E. S. ROSE



A. M. ROSENBERG



D. L. ROSENHAN



O. RUDOLPH



MRS. U. SANTER



M. SANTER



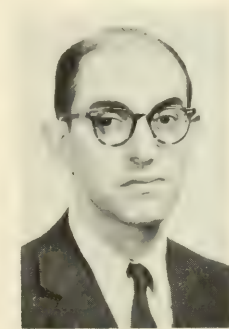
I. SATTERTHWAITE



A. SATTERTHWAITE



F. SELOVE



WALTER SELOVE



E. SMOLENSKY



L. SOLOMON



T.H. WOOD



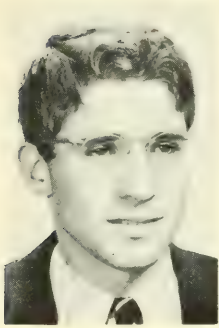
H.M. SOMERS



J. SPIELMAN



D.V. STEERE



S.M. TATNALL-60



H.M. TEAF

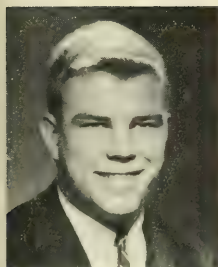


R.R. WILLIAMS



N. WILSON

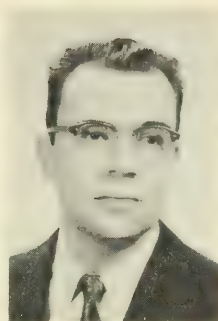
Returnees Not Yet Assigned To Classes



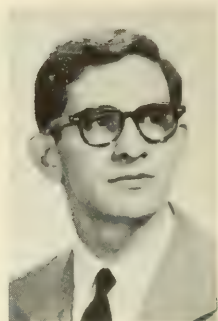
J.R. ADAMS



E.W. ALDERSON



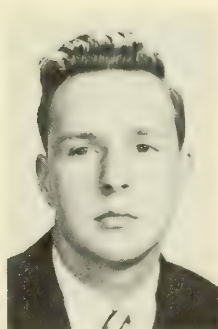
J.T. BLANCHARD



MIKE BROWN



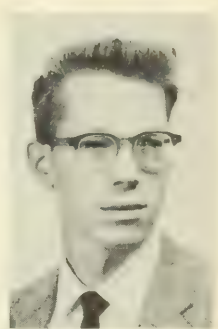
D.J. CHALLIS



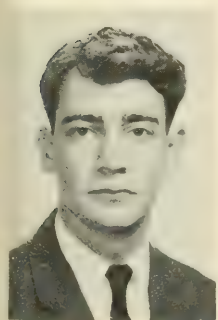
S. FLANDERS



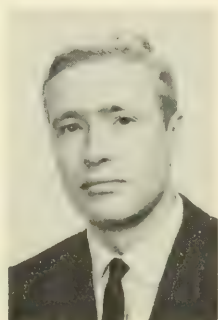
R. FREEDBERG



H.S. GRAY



R.H. HAYMOND



C.B. HOWARD



J.K. LARSON-



TIM LEWIS



D. MITCHELL

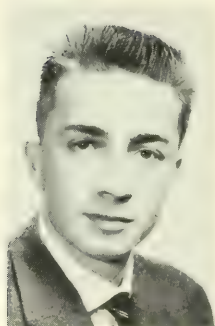


G. R. RUSSEL



LARRY SCHRAMM

Students Special and Transfers



D. H. HAACK

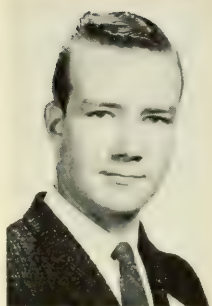


W. H. PHILLIPS

Freshmen



J.C. AIRD



E.S. ANDREWS



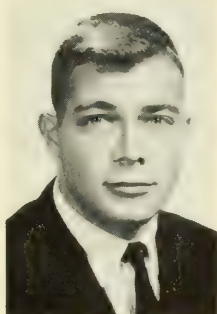
R.H. BATES



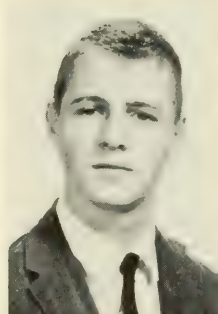
B.J. BERMAN



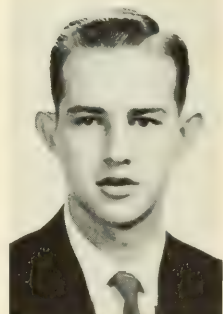
L.W. BIRMINGHAM



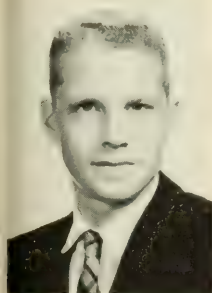
R.M. BOCKOL



KEITH BRINTON



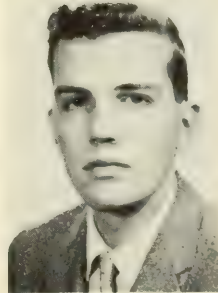
J.F. BUNDY



F.G. CARSON



J.S. CHAMBERLIN



J.M. COBLENTZ



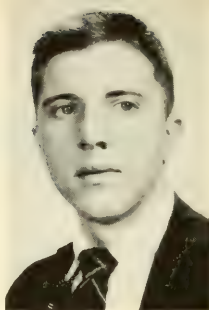
M.J. COOK



D.G. COOK



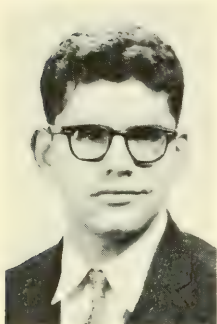
R.M. COOPER



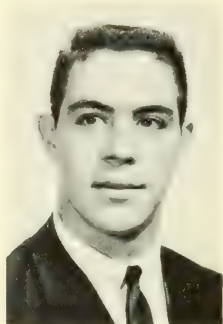
G.N. COUCH



J.R. CRUM



J.T. CUMMING



S.J. DALLOLIO



J.H. DARNELL



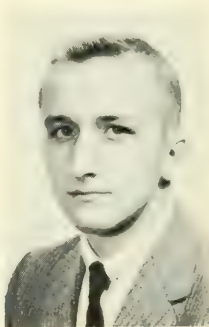
D.N. DE WILDE



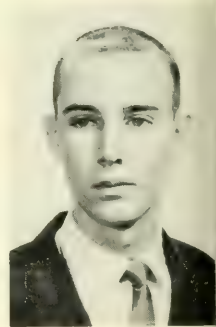
T.K. DODD



J.O. DONALDSON



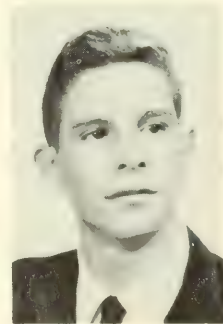
J.W. EISELE



J.R. ELLIS



R.E. ELMER



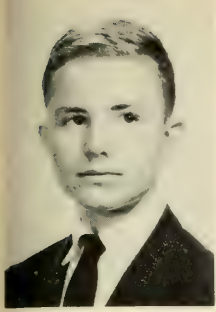
E.N. FALES



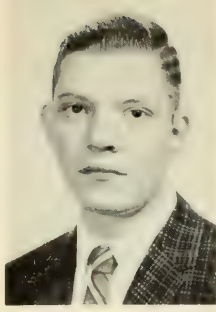
E.C. FILSTRUP



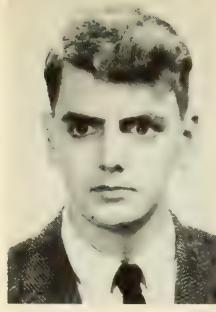
D.A. GARDNER



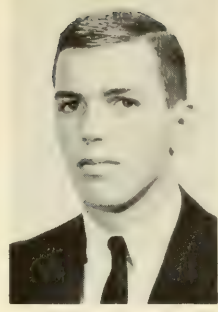
C.C. GLASS



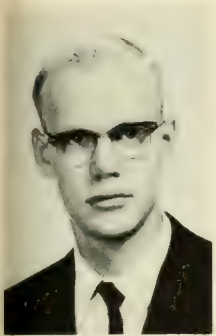
J.A. GORDON



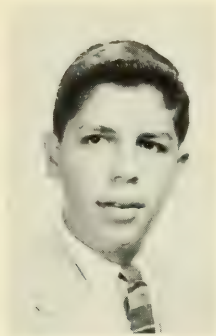
R.K. HARRIS



E. HARSHAW



P.L. HENDERSON



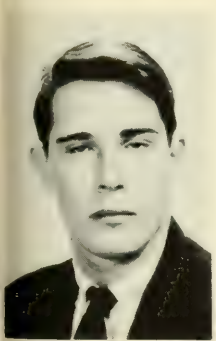
J.K.M. HOLLAND



P.T. HOPPER



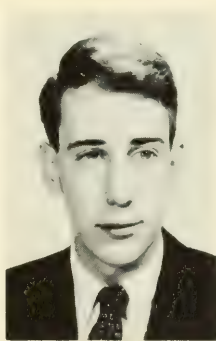
W.C. INGS



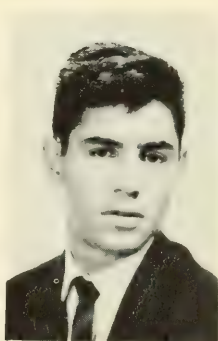
D.M. JACKSON



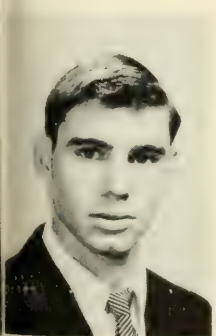
C. JACOBS



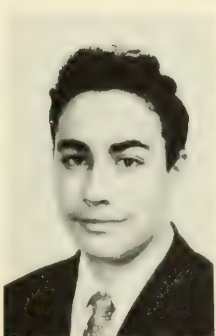
J.M. JONES



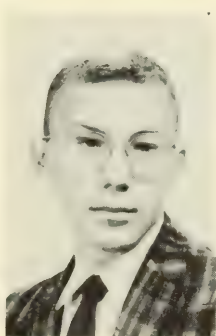
J.P. KABAT



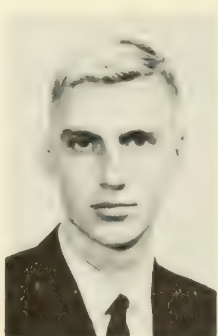
L.S. KANES



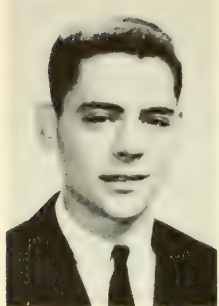
S.C. KURIAN



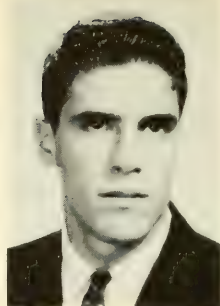
E.D. LARKIN



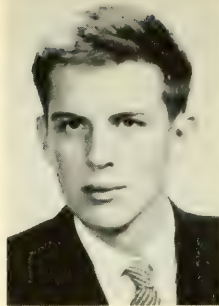
I.E. LEPPIK



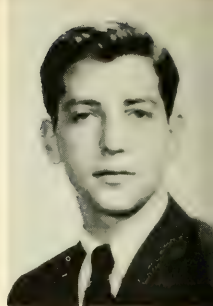
D.E. LERNER



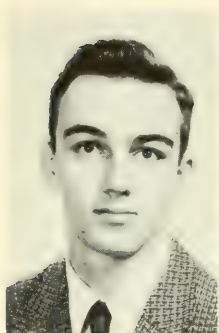
M.S. LEVIN



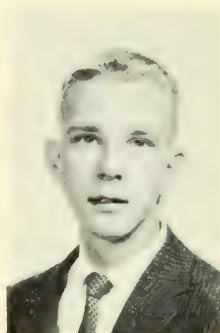
C.D. LEWIS



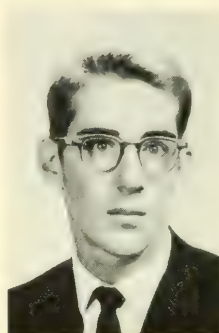
T.E. LIPPARD



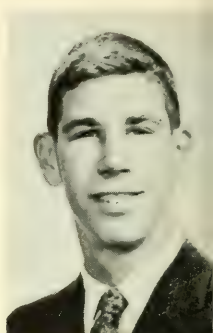
E. LOB



P.W. LUCAS



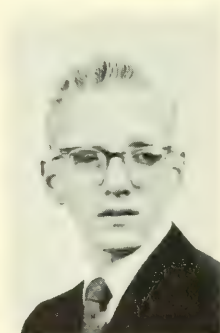
R.F. LUKE



W.A. MACAN



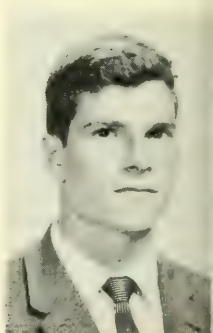
P.P. MAC DOWELL



N.A. MAC MILLAN



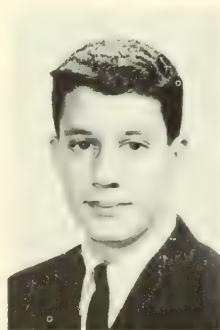
J.S. MAJOR



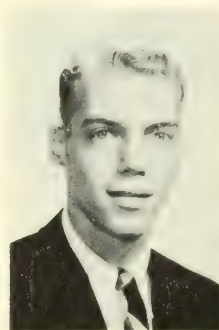
W.W. MALANDRA



S.Y. MC DOUGAL



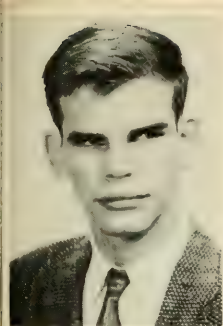
M. MC KEON



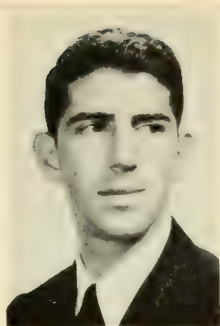
R.L. MICK



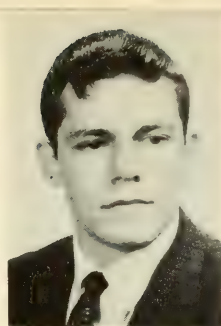
R.G. MITCHELL



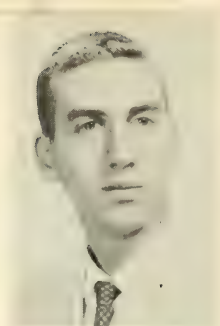
R.S. MUNGER



M.S. NELSON



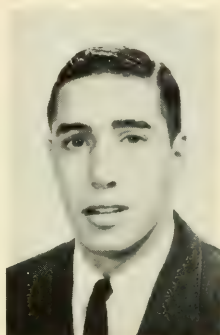
M.P. NEVIN



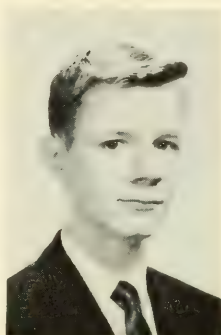
D.S. OLTON



O.O. OYELARAN



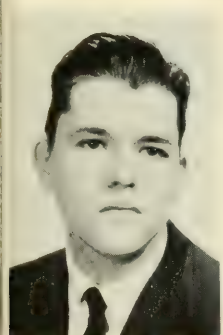
I.N. PEARLSTINE



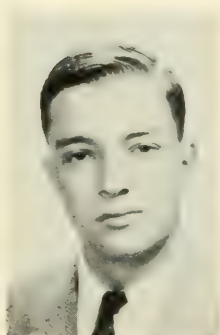
R.D. PHIPPS



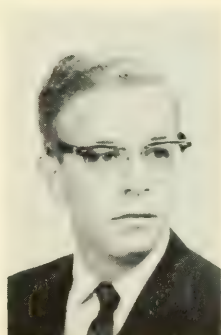
F.J. POPPER



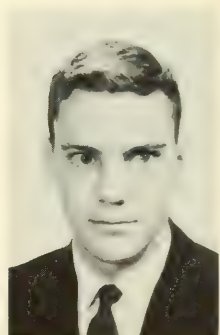
D. RATAJCZAK



T.A. REED



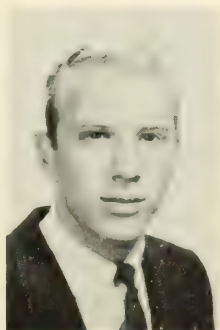
D.J. REINFELD



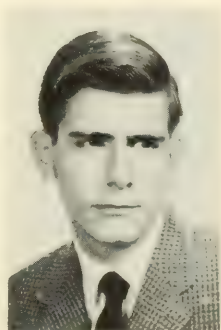
R.F. RICHARDSON



R.C. RIORDAN



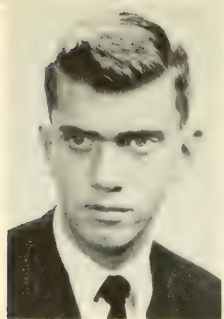
R.A. ROBERTSON



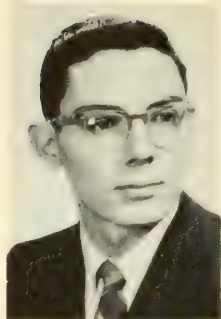
H.M. ROBINSON



J.B. RUPPENTHAL



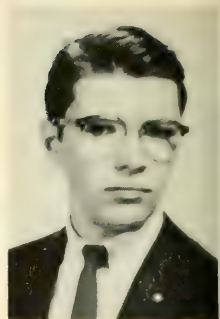
L.F.SALMEN



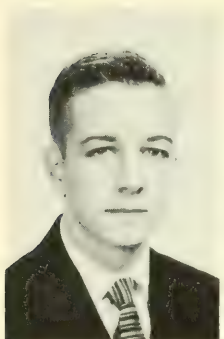
G.A.SARGENT



P.W.SCHERER



R.D.SCHOFIELD



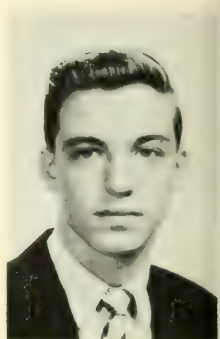
B.D.SEAGREN



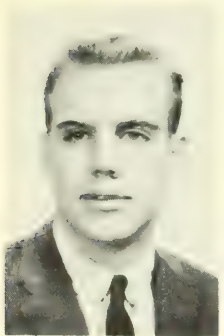
W.A.SHAVER



R.M.SHAPIRO



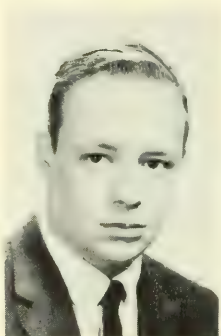
J.C.SHOEMAKER



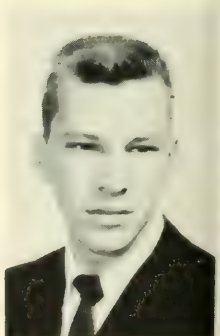
R.N.SHUMAN



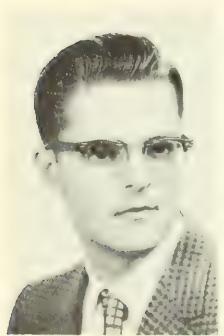
D.N.SILVERS



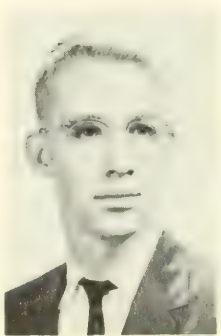
E.S.SMITH



J.R.SMOLUK



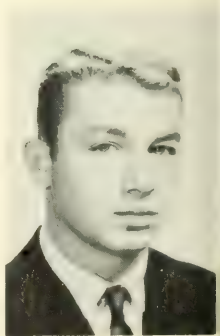
R.M.SNOW



W.B.SNYDER



M.R.SONNENBORN



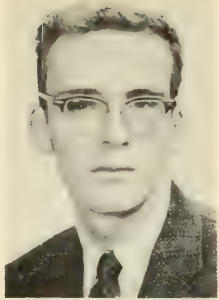
J.D.SPAETH



T.G. STANDING



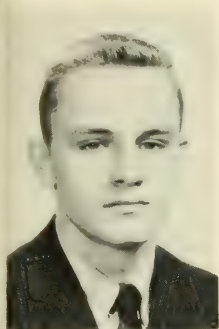
T.S. STERRETT



C.V. STEWART



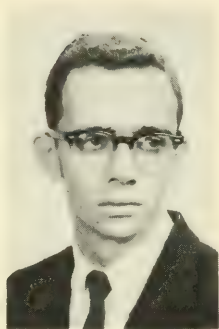
C.L. STRANG



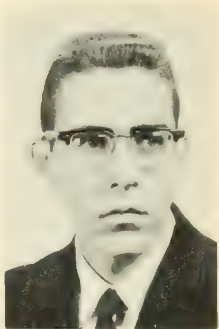
H.C. STULTING



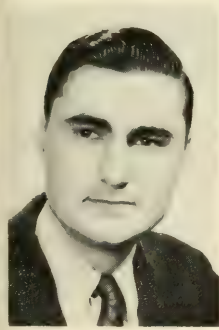
J.B. SUNDERMAN



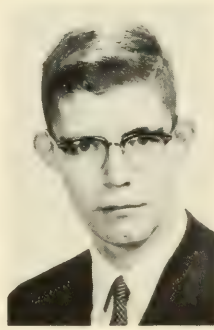
M.P. TODARO



J.B. TOMARO



B.A. TULLOCH



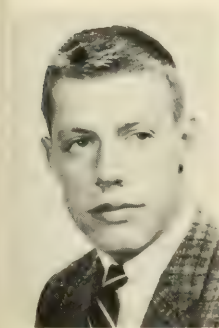
R.P. VAN BERG



J.W. VAN CLEAVE



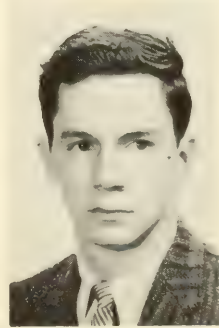
J.E. VINTON



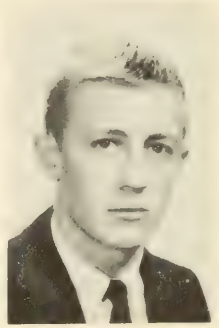
J.J. VON RANSON



R.L. WADEMAN



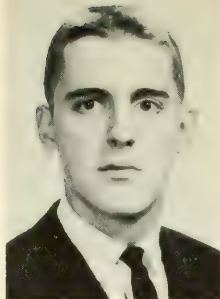
S.A. WARD



R.A. WERTIME



D.P. WITTINGTON



F.L. WIGHTMAN



H.B. WILCOX



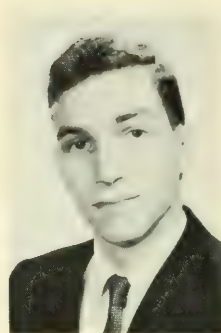
E.P. WILLIAMS



J.A. WILLIAMS



A.B. WILLIAMSON



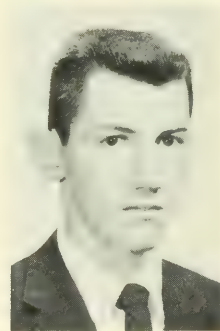
S.A. WOLIN



A.S. WOOD

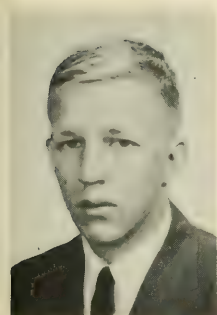


D.L. YAFFE

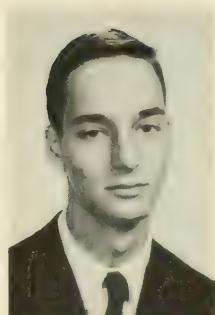


J.A. ZANGERLE

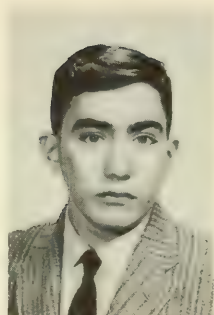
Sophomores



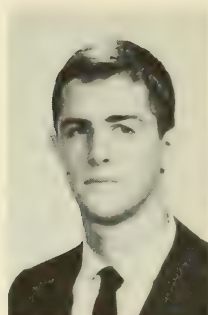
R.W. ANDREWS



L.H. AUER



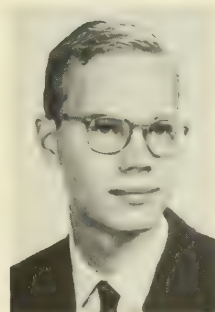
B.H. BARLOW



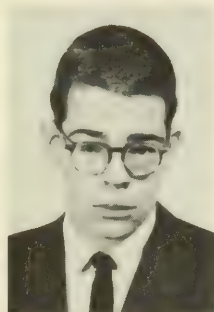
G.T. BARNETT



D.T. BATES



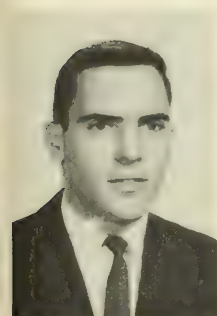
W.H. BEIK



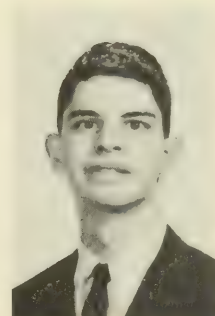
T.B. BELANGER



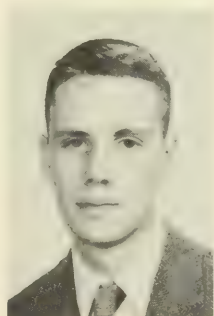
C. BERNHEIMER



H.G. BIBBER



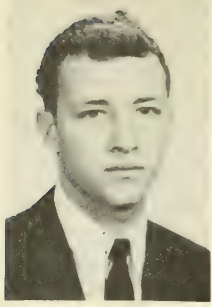
H. BLUMBERG



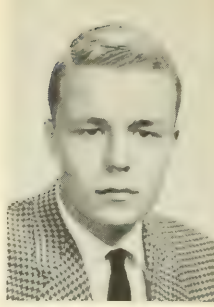
J. BLUMENTHAL



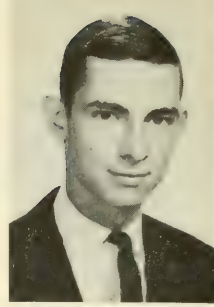
S. BOBROVNIKOFF



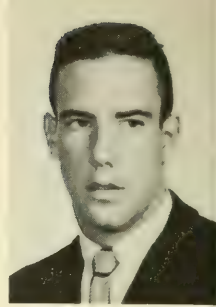
F.P.BOWLES



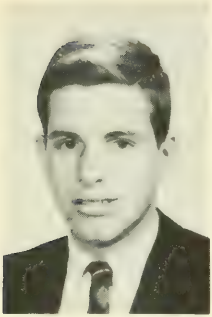
J.S.CARROLL



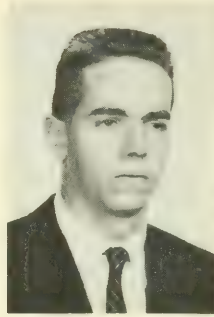
J.R.COLE



C.B.CONN



J.R.COOK



A.T.CRANE



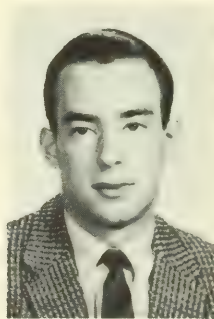
D.C.DANEKER



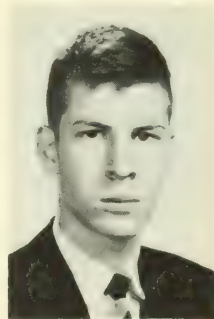
H.DARLINGTON



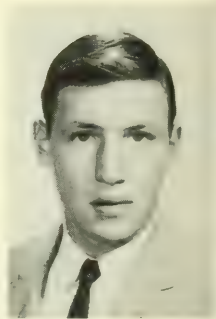
S.R.DAVID



G.R.DE RIS



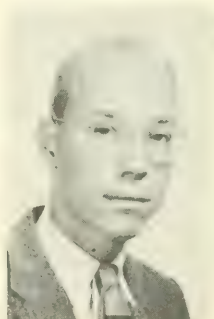
W.V.DORWART



P.A.EDDY



S.J.ETTINGER



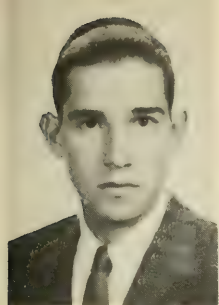
R.H.EZERMAN



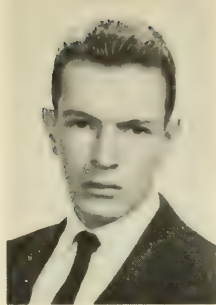
R.C.FASOLDT



B.S.FOERSTER



J.E.FRANKLIN



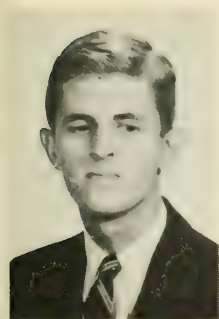
J.F.GEDDES



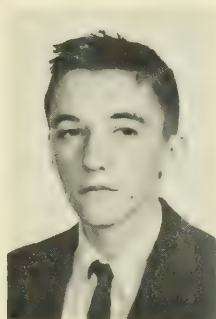
L.F.GHIGLIONE



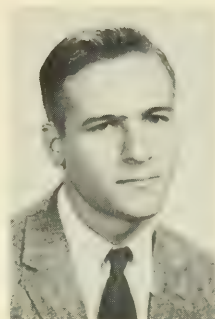
I.R.GILBERT



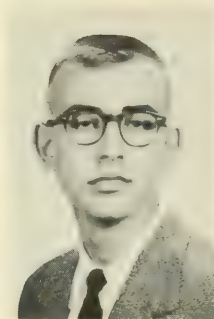
B.S.GILLAM



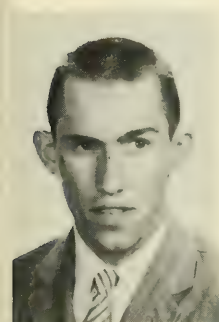
J.W.GRAMBS



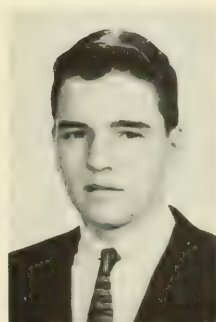
D.B.HALL



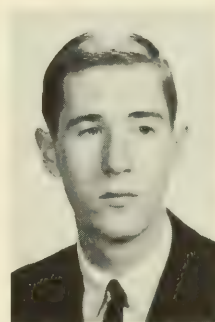
W.E.HAMMAKER



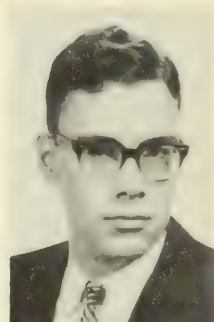
G.M.HARTER



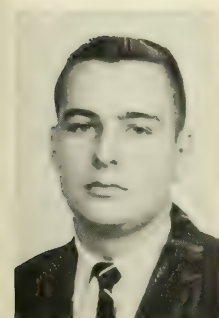
E.M.HARTMAN



R.W.HERZEL



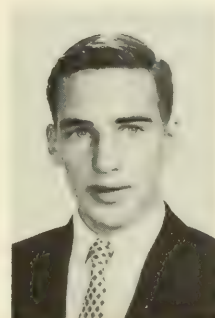
J.F.HEUSS



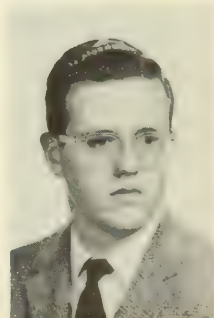
K.HILLIARD



A.HILTEBEITEL



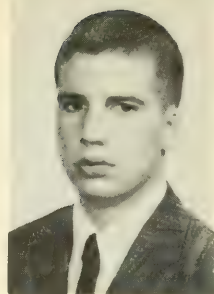
D.HOGENAUER



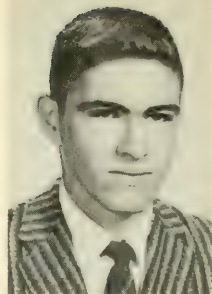
A.D.HOLE



G.W.HOUSTON



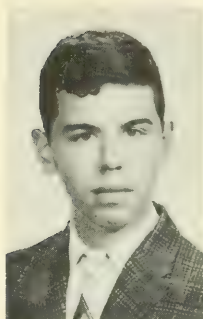
J.D.HOUSTON



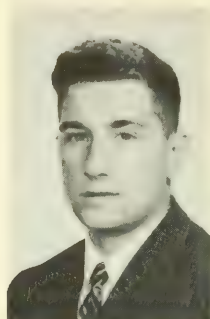
D.HUNT



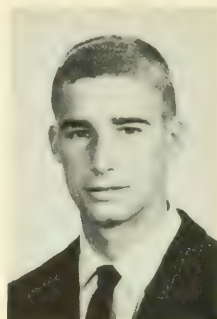
J.P.JOHNSON



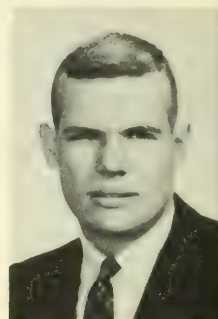
S.C.JOHNSON



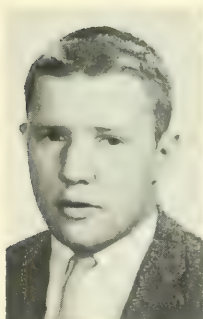
G.KANNERSTEIN



C.P.KAUFFMAN



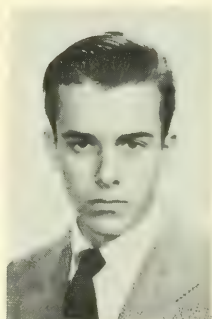
W.S.KELLEY



T.KESSINGER



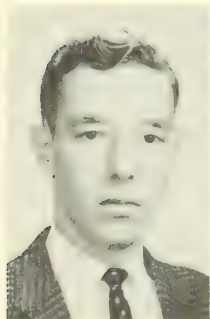
R.L.KOHN



P.H.LARY



W.G.LAWN



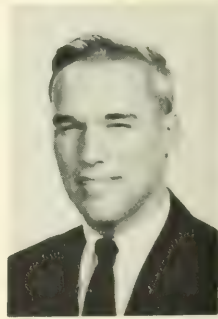
W.D.LEARNED



B.A.LEDERBERG



A.P.LEHNER



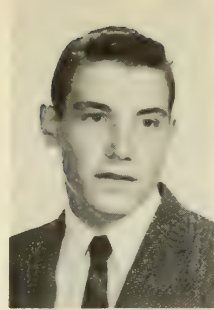
D.K.LEONARD



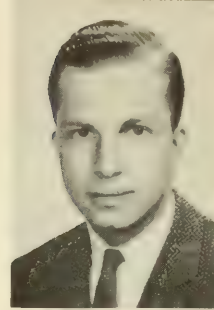
B. M. L'ETOILE



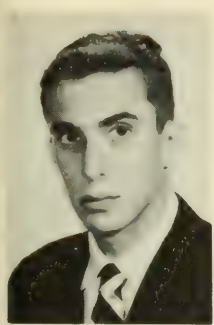
W.G. LEVI



S.L. LEVITT



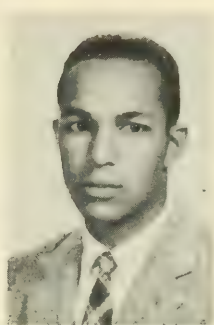
J.H. LIESVELD



K.V. LIPEZ



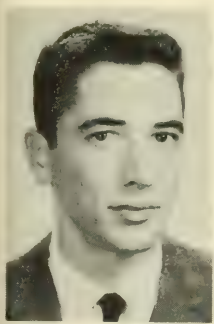
G.J. MACLAY



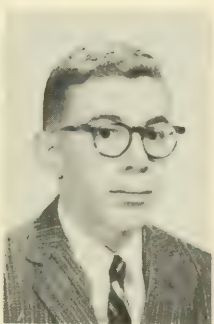
J.B. MAC RAE



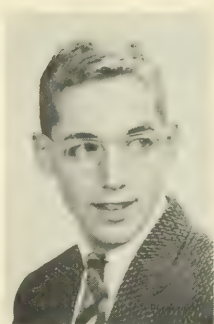
J.D. MARGOLIS



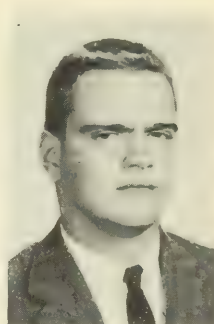
C.N. MAXFIELD



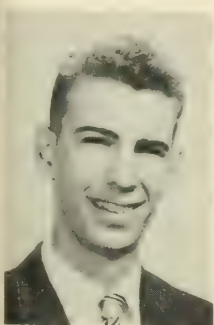
J.S. MC CONAGHY



W.H. MECHLING



W.R. MERVINE



R.F. MILLER



C.W. MORRISEY



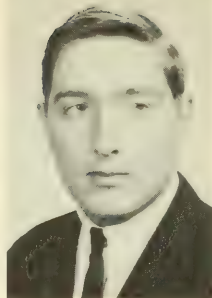
P.R. MOYER



K.T. NOELL



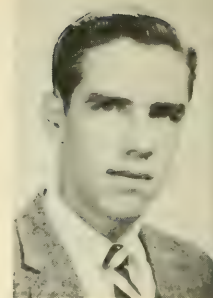
R.W.NOLTE



H.P.NORBERG



E.T.NORTHROP



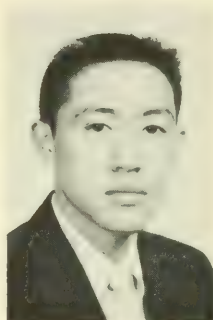
W.H.OELKERS



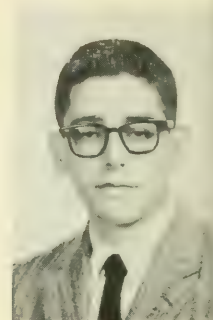
F.H.POLLARD



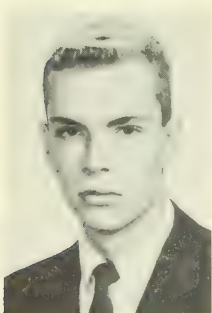
C.W.POWERS



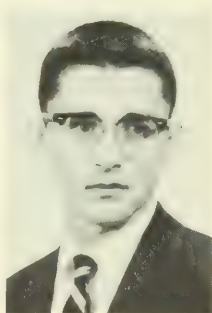
E.S.QUILL



A.H.QUINT



F.E.RAACH



J.I.RICHARDSON



T.W.RICHARDSON



W.G.RIGGAN



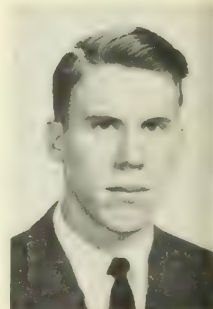
J.H.ROBERTS



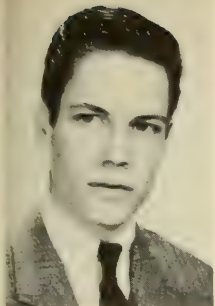
T.L.ROSE



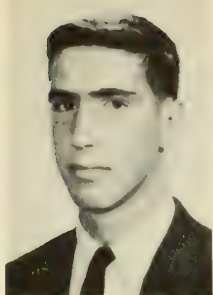
R.L.RUBERG



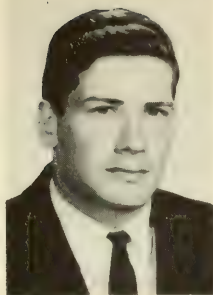
J.D.RUFF



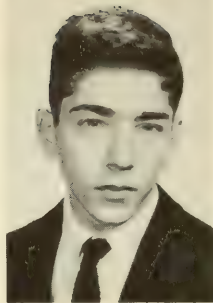
H. F. SAINT



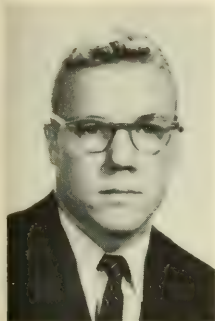
J. F. SCHAMBERG



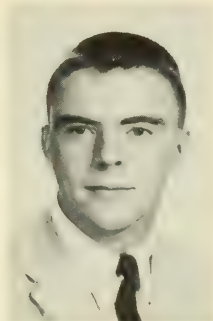
J. R. SCHULZE



T. M. SCHWEITZER



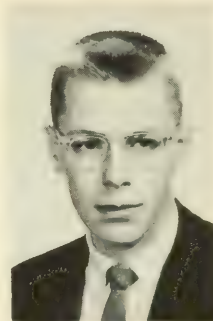
E. P. SCHWENTKER



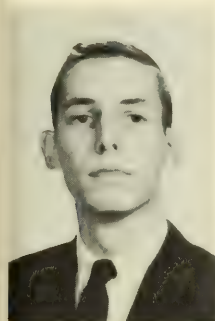
W. B. SHERMER



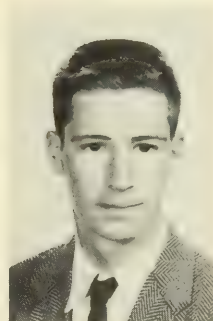
A. SIEGEL



D. C. SMILEY



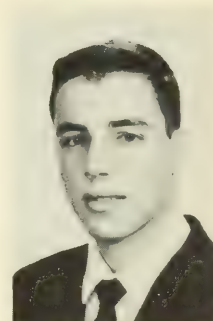
C. W. SMITH



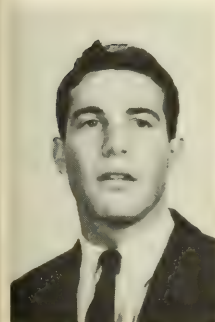
G. P. SMITH



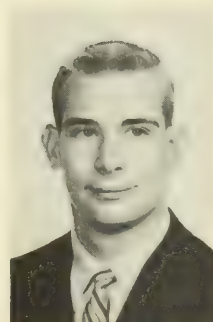
K. G. SMITH



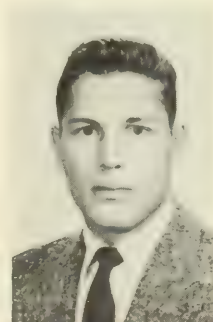
S. S. SMITH



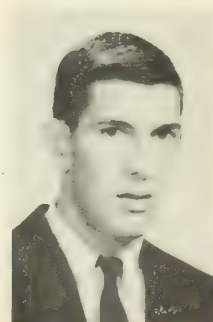
M. H. SPRING



F. J. STANLEY



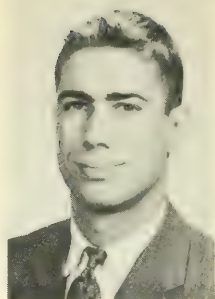
B. R. STAVIS



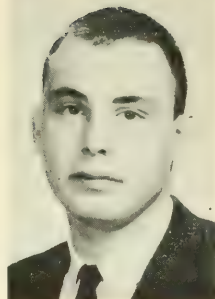
A. N. STONE



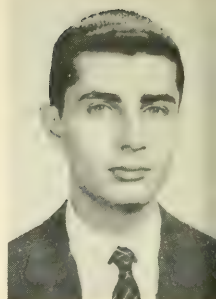
J.H.TAYLOR



C.A.THRALL



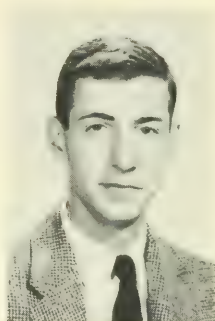
R.W. UNGER



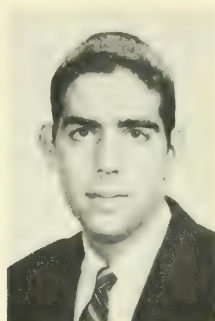
A.F.VINCENT



A.J.WALTON



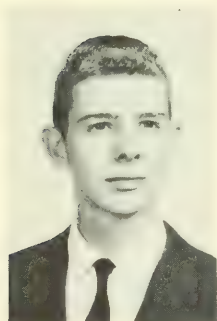
M.J.WEBER



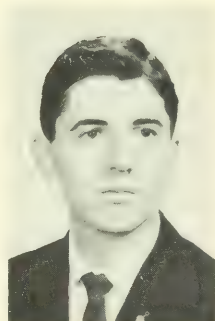
M.W.WERNER



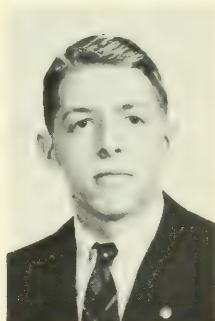
J.T.WERTIME



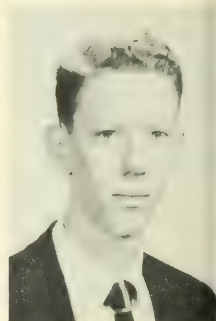
R.E.WESTBERG



R.A.WHITE



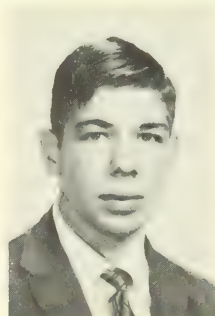
L.WILLIAMS



N.K.WILLIAMS



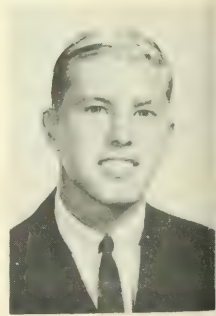
P.N.WILSON



J.C.WINTERER

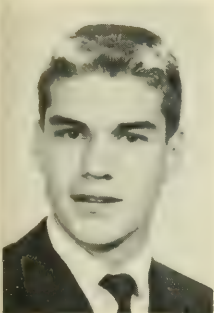


J.S.WOOD

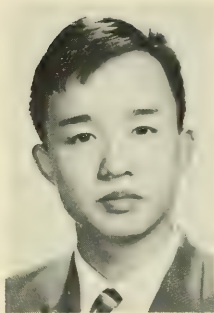


F.R.WORTH

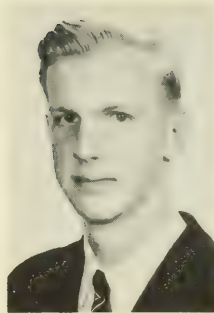
Juniors



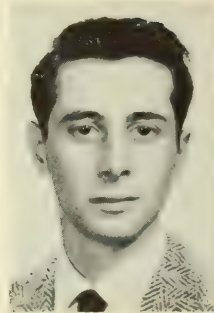
D.W. ADAMS



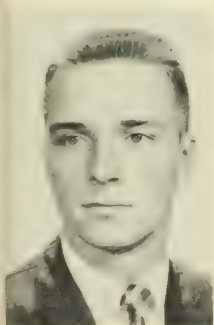
N. AKASHI



R. ALLENDOERFER



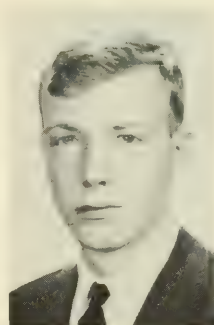
M.S. ARONOFF



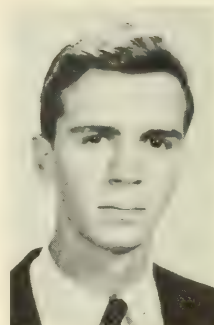
J.D. BAEHR



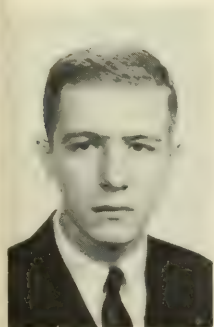
M.F. BALDWIN



G.P. BARBER



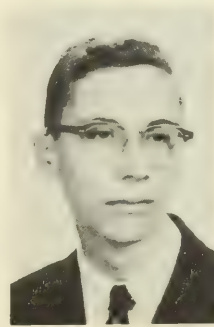
T.J. BARLOW



R. BEMIS



J.F. BLAIR



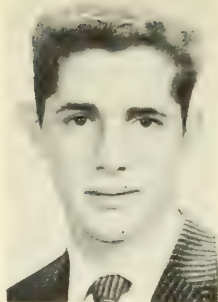
G.H. BLAUVELT



J.A. BLOCK



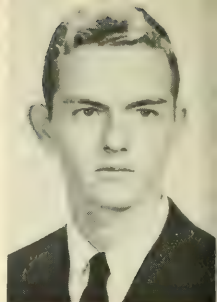
J.W. BORTON



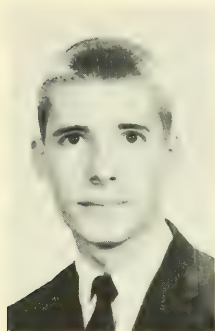
J.R. BOWER



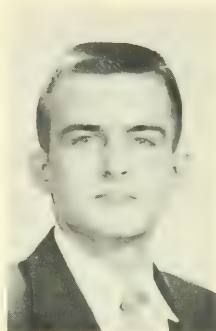
J.M. BURGIN



C.L. COCKE



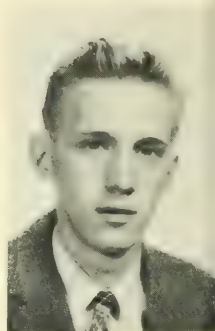
J. COOPER



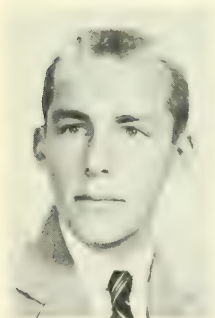
J.E. DAHLBERG



R.N. DE LUCA



F.M. DE NIE



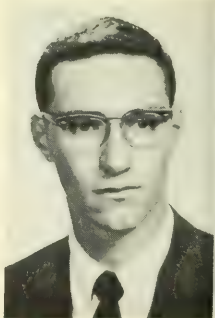
H.C. DESHONG



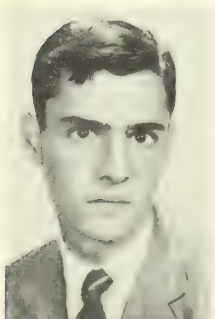
W.H. ERB



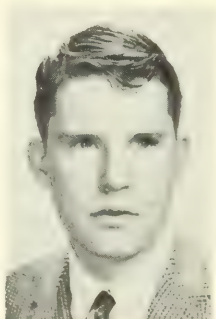
S.W. FISHER



J. FLACCUS



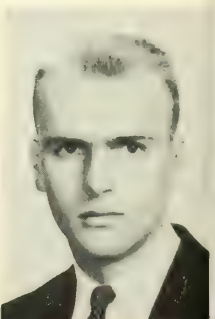
A.W. FOWLER



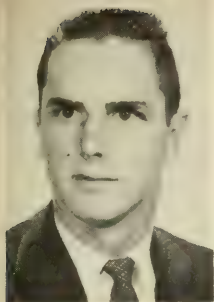
R. B. FOWLER



J.D. FOX



G.W. FREEMAN



W.B.FREILICH



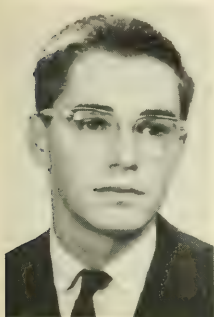
D.L.GAETJENS



V.A.GAGE



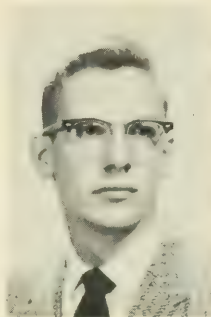
P.K.GARRETT



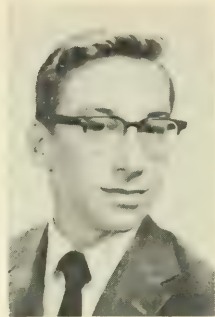
J.C.GEORGE



D.R.GWATKIN



M.D.HAMPDEN



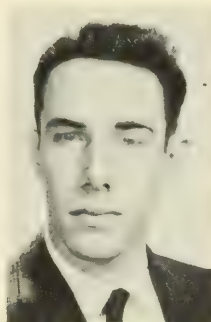
M.L.HARTMAN



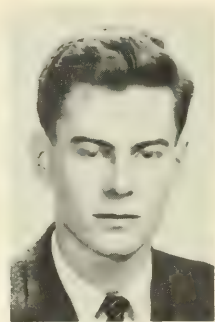
T.M.HAURI



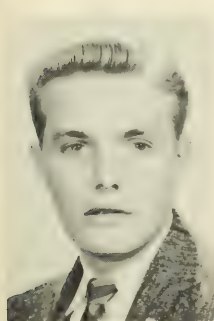
H.M.HELSEINGER



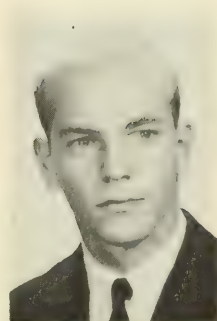
D.HEMMINGWAY



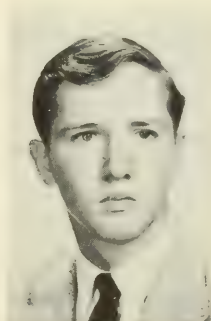
J.A.HIRST



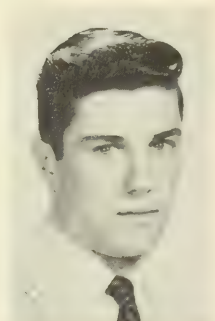
G.L.HOLTZMAN



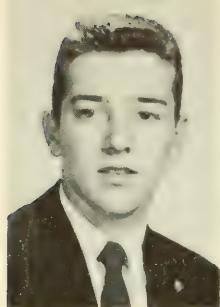
J.B.HOOPES



H.D.JENKINS



R.H.JENKS



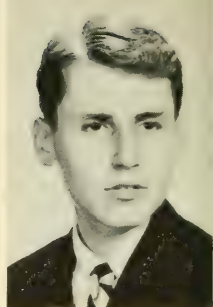
F.E. KLINGER



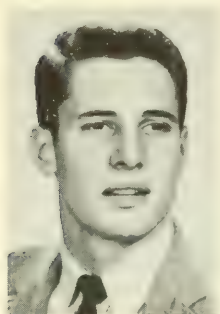
H.W. KNOX



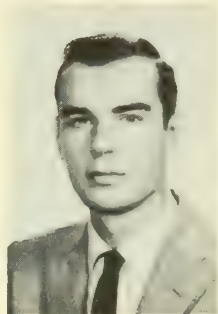
G. KOVACSICS



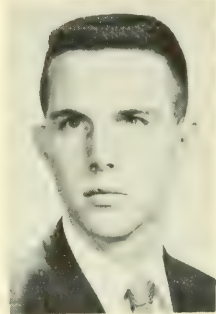
P.S. KRONE



P.O. LANE



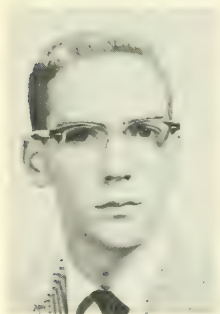
L.K. LARSON



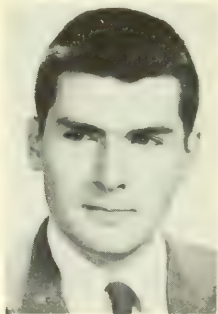
R.W. LINVILLE



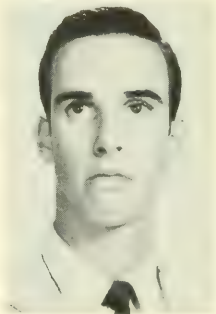
S.J. LIPPARD



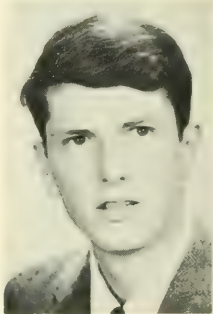
R.W. LYNN



K.A. MAC LEOD



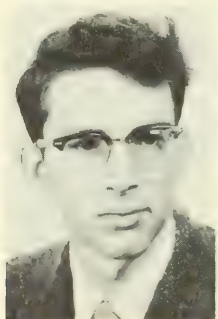
P.K. MEARS



J.I. MEYER



J. MIDDLETON



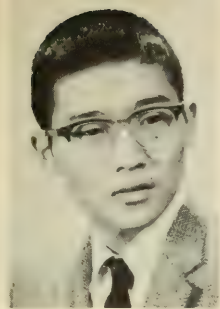
S.H. MILLER



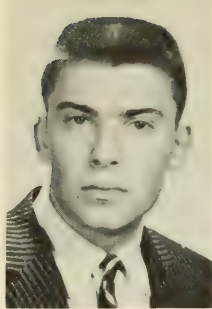
K.S. MORGAN



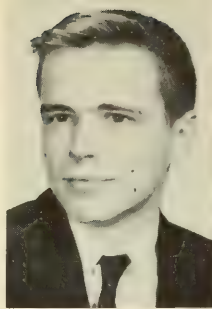
P.A. MUSGROVE



K. NAKAYAMA



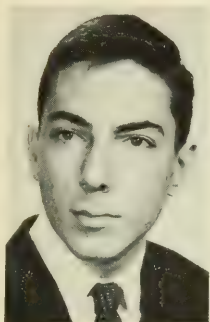
E. A. NATELSON



R. B. PARKER



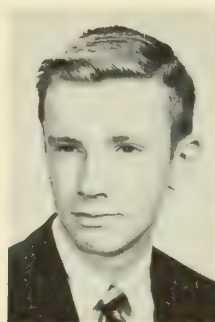
W. E. PARKER



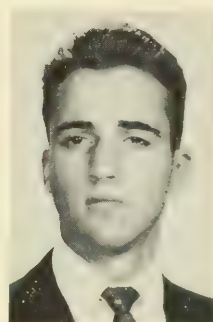
R. D. PENN



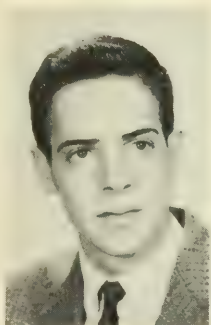
A. R. PETRASKE



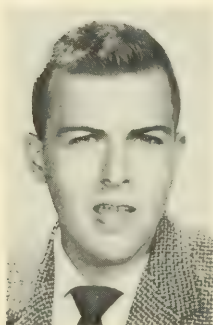
D. W. PILBROW



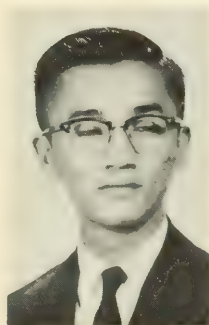
C. R. ROBINSON



M. RODELL



F. H. ROEVER



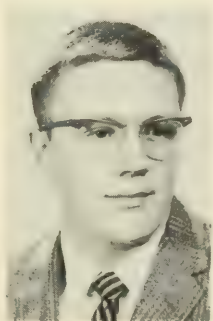
B. C. SAH



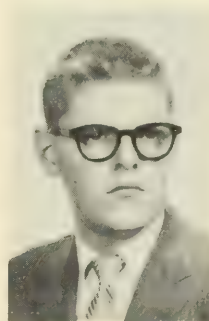
R. E. SALISBURY



F. G. SANFORD



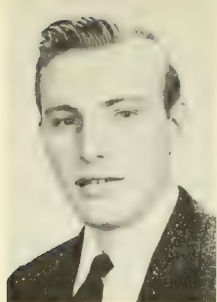
W. D. SEDWICK



T. K. SHARPLESS



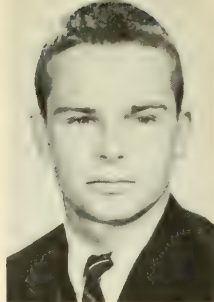
C. SHILLOCK



D.L. SNIDER



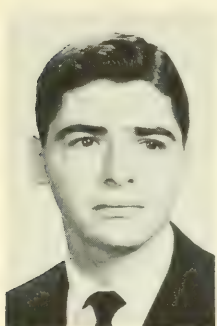
A. SPIEGEL



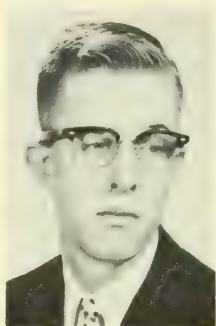
C.F. STAFFORD



M.W. STANLEY



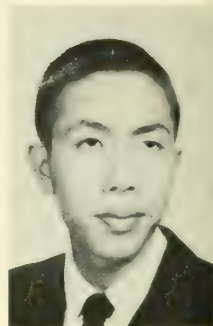
W.F. STEIGMAN



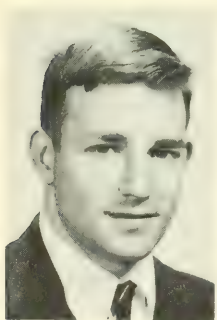
K.W. STEVENSON



M. STRICKLER



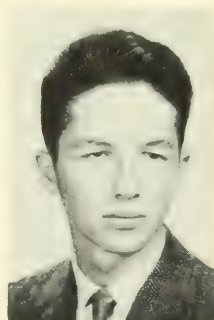
G.M. TAI



D.N. TALBOT



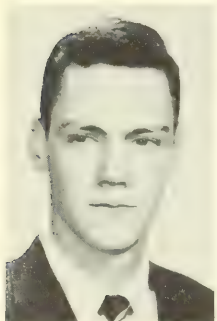
R. TANNENBAUM



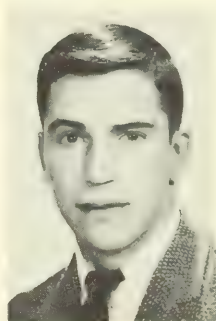
D.S. TURNER



R. VAN CLEAVE



R. VAN DENBERGH



L.A. WADDELL



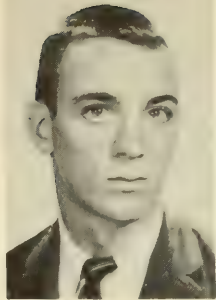
S. WAITE



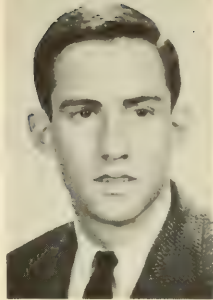
R.B. WARFIELD



C.B. WATKINS



J.G. WEYAND



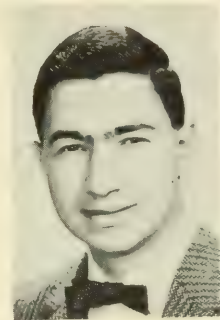
J.G. WILLIAMS



J.S. WILLIAMS

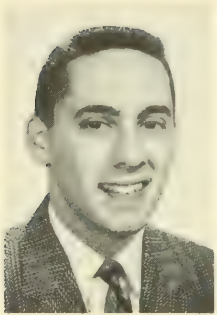


L.H. YEARLEY



E.J. ZOBIAN

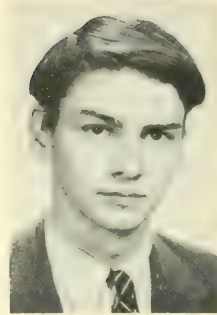
Seniors



R. ABRAMS



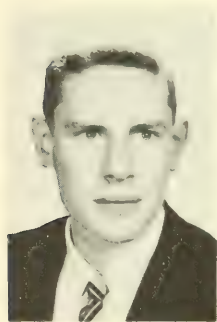
G.W. ADAMS



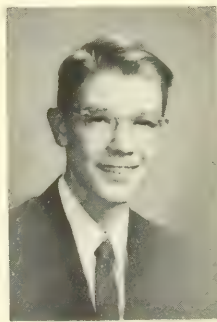
J.W. ALLEN



C.R. ALVING



A.W. ARMSTRONG



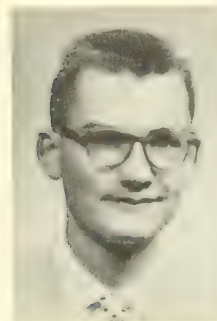
T.T. ARNY



D.R. BAKER



A. BALLARD



T.A. BEGGS



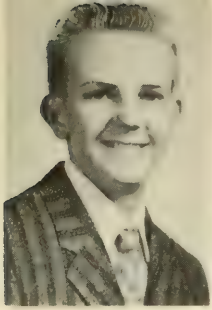
G.R. BEHLING



D.A. BELSLEY



R.W. BESDINE



H. BONNER



R. A. BOSHES



D. R. BOWEN



M. E. BRIOD



R. J. BROBYN



P. G. BROWN



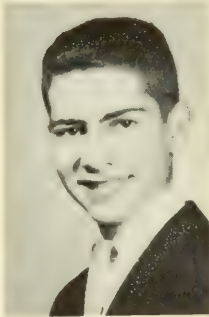
C. G. CALLAN



R. L. CAPLAN

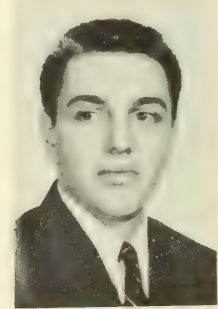


W. M. CHACE



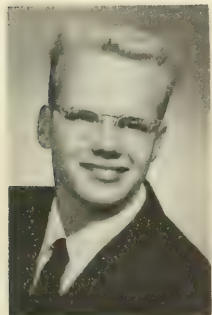
W. A. CRAIG

SEE SUPPLEMENT



D. J. CHALLIS

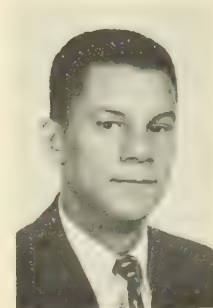
A. CUGINOTTA



D. A. DECKER



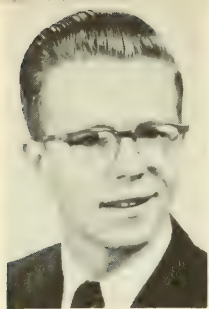
T. DEL BELLO



W. J. DENT



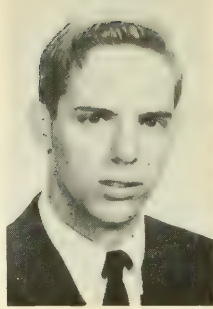
M. R. DOHAN



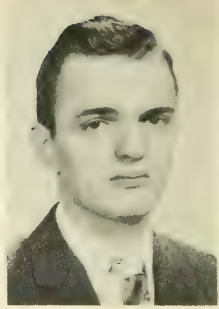
W.H. EDGAR



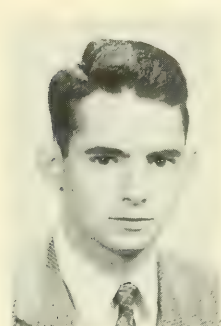
J.H. ELKINS



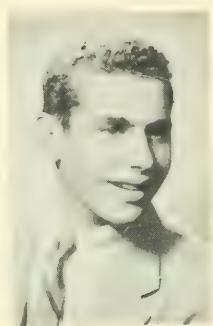
E.W. FENANDER



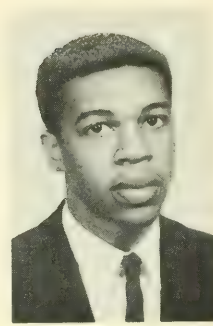
G.L. FERNSLER



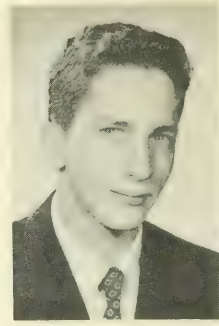
P.D. FOX



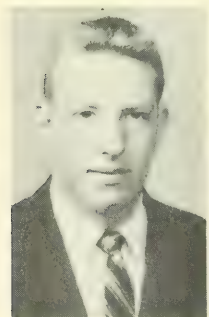
F. FURSTENBERG



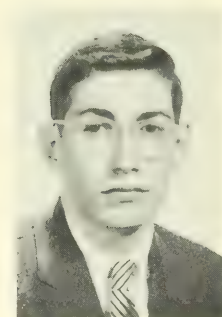
M.L. GARY



R.P. GILLMOR



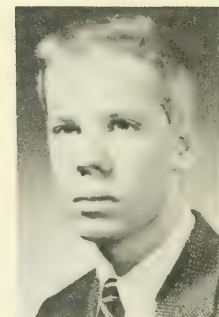
O.B. GOODMAN



J.W. GOULD



M.G. GRIFFITH



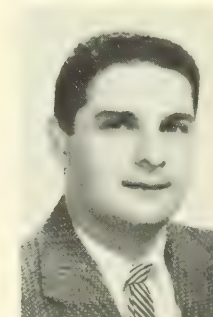
W.B. GROSE



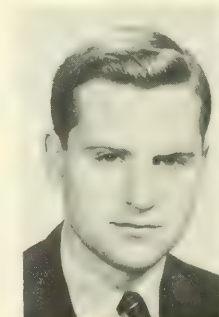
R.L. GROVES



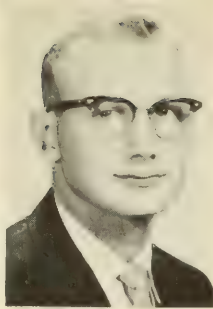
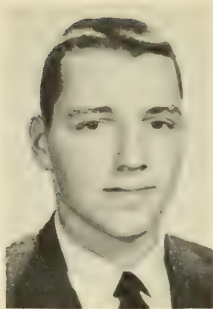
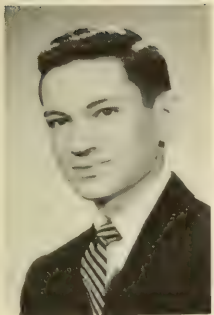
D.P. HANSON



J.P. HANSON



R.B. HARVEY

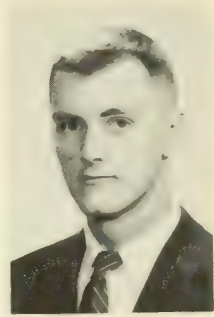
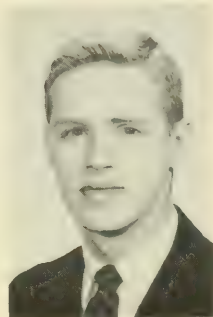
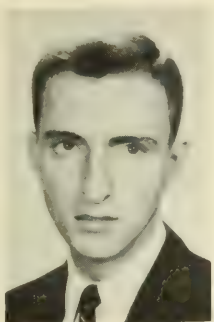


E.L. HATCH

J.D. HEILMAN

T. HENDERSON

H.T. HETZEL

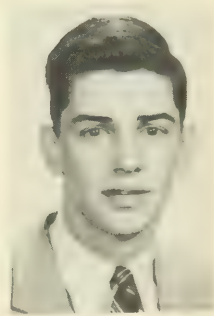
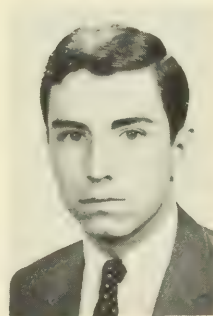
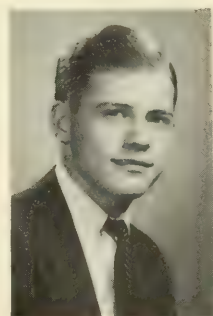


E.P. HOFFMAN

S.E. HOLSOE

W.A. HOUSTON

J.S. HOWE

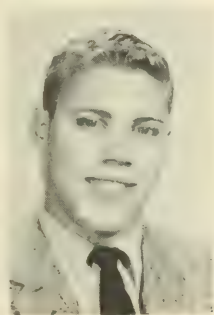


P.B. JERNQUIST

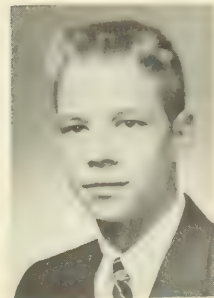
S.G. JONES

C.R. KELLY

C.M. KIMMICH



SEE SUPPLEMENT

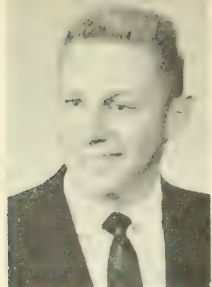


S.L. KLINEBERG

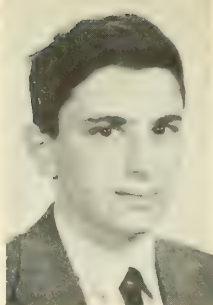
J.K. LARSON

M.C. LEHFELDT

A. LINTHICUM



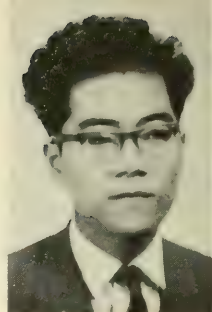
R.F. LOCKEY



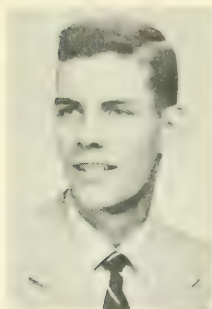
R.L. MARTIN



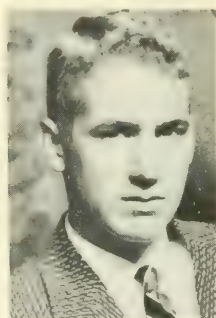
N.D. MATCHETT



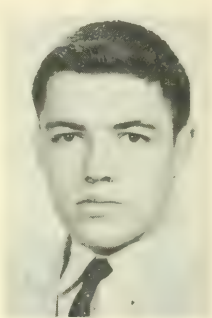
K. MATSUURA



H.C. MC LEAN



E.A. MECHLING



N.M. MEYERS



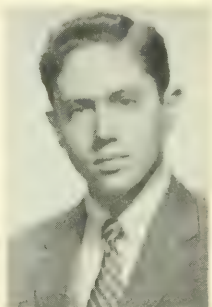
A.L. MILLER



G.K. OLSEN



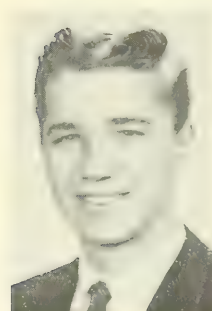
R. PARKER



A.K. PASKOW



H.P. PELOUZE



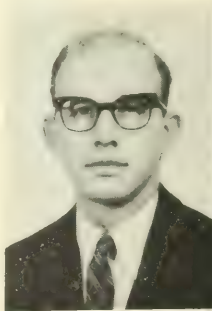
J. PENDLETON



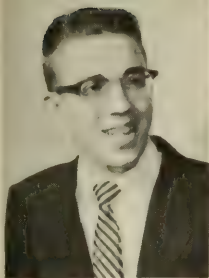
E.V. PIERCE



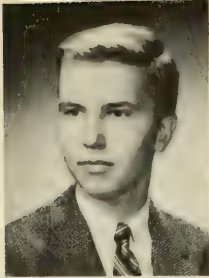
D.H. PIERSON



P. PLATENIUS



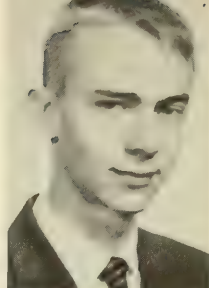
R.QUINTER



S.RAMSEYER



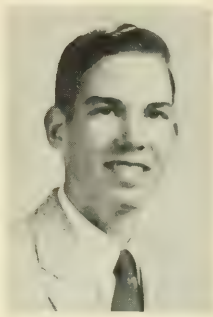
R.M.RAUCH



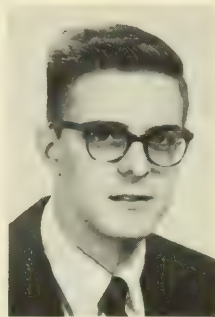
W.C.READ



E.REINER



G.G.RHOADS

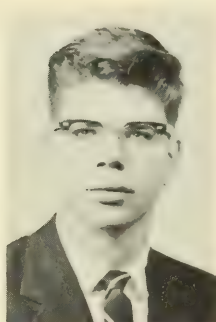


E.K.RITTER



H.SCHAMBELAN

SEE SUPPLEMENT



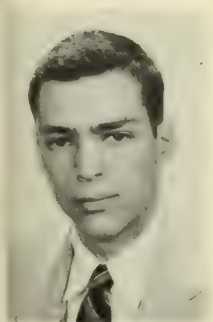
L. P. SCHRAMM



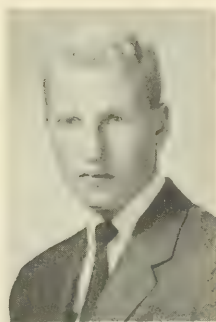
L.SCOTT



S.SHAFER



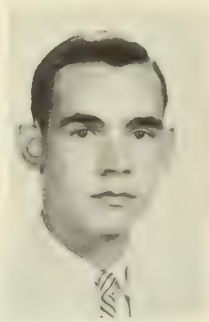
F.W.SHELTON



F.SILVERBLATT

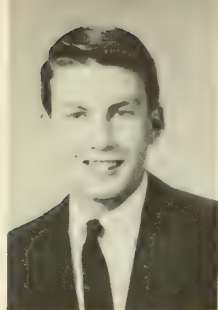


J.B.SMILLIE



J.P.SMITH

M.SHOWE



L.F. SMITH



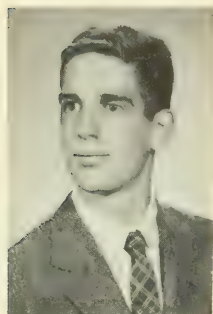
T.B. SOUDERS



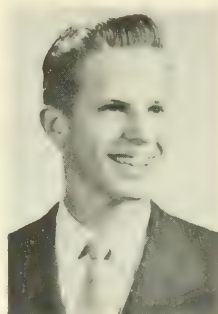
W. SPEAKMAN



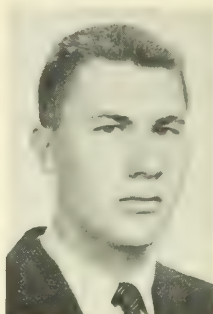
G.H. STEIN



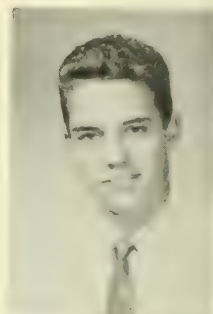
F.J. STOKES



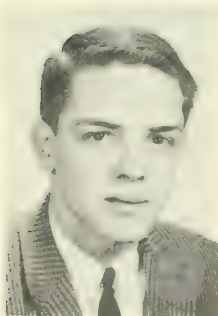
F. SWAN



J.K. SWIFT



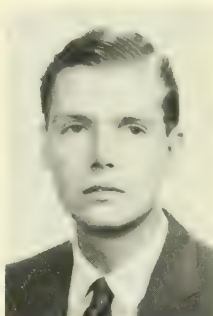
H.E. TAYLOR



H.N. TAYLOR



M. THOMPSON



D. THREADGILL



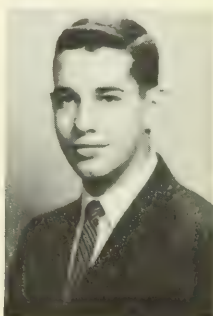
A.C. TILLIS



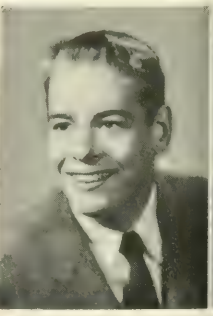
K. TRABERT



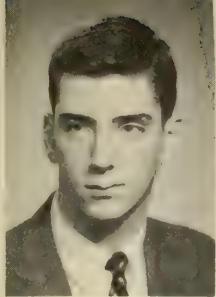
J. VAN DER VEEN



S.K. VERNON



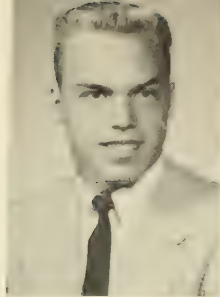
W.E. WALLING



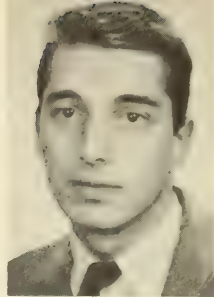
M.R. WEIL



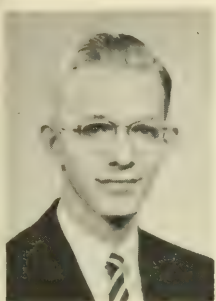
R.P. WENZEL



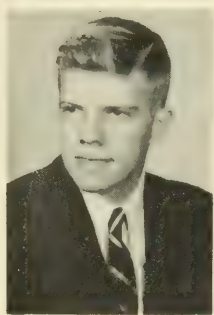
J.W. WILLS



P. WOLFF



F.H. YOUNG



J. ZIEGENFUSS

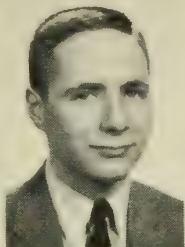
Haverford College
1959-'60

Picture Directory

LIBRARY OF EVERFORD COLLEGE - Seniors



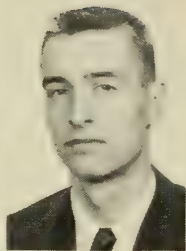
R.L. ALBRIGHT



G.G. ALEXANDER



R.G. ALLEN



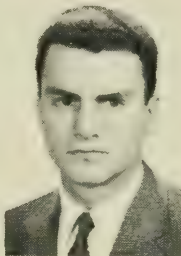
W.E. ANDREWS



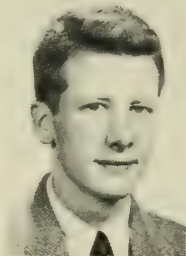
P.L. ARNOW



J.D. BAKER



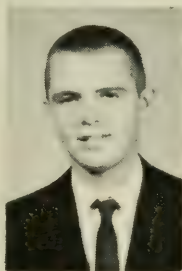
M.J. BENNETT



P. BLACKBURN



J.T. BLANCHARD



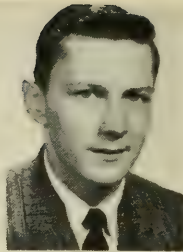
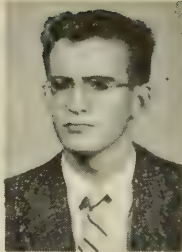
K.W. BRADLEY



T.C. BULLARD



J.F. CARLIN



G.G. CARPENTER

A.M. CLARK

J.W. COKER

R.L. COLES



SEE SUPPLEMENT



J. COLLETT

D. J. COOK

C. CONN

R.G. CORNWELL

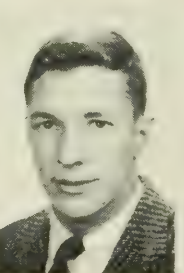


A.E. DAHLBERG

J.H. DAVID

T.A. DUFF

L.T. FORMAN



J.G. FULKERSON

P. GERDINE

M. GOGGIN

F.L. HARVEY



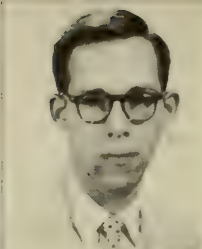
G.N. HAWORTH



J.B. HAYTER



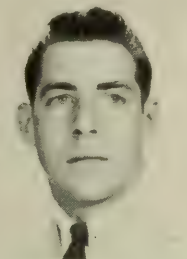
R.D. HILLIER



P. HOWARD



W.J. HOWARD



J. HURFORD



W.W. JONES



M. KAUFMAN



C. KLINGENMAIER



M.H. KOHN



N.M. LARY



G. LEVIN



C.S. LIPTON



E. LONGBOTHAM



J.G. MACORT



R.P. MARGIE



G.A. MC CURDY



D. MC KELVEY



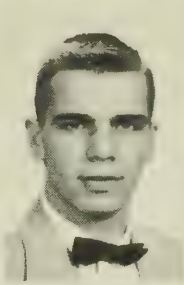
R.S. MERMIN



R.S. MILLER



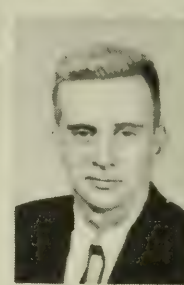
D.W. MORGAN



W.E. MULLER



W.A. MURRAY



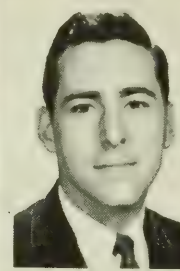
B. NEWCOMB



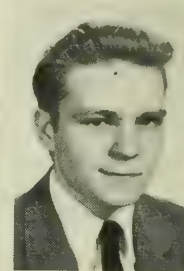
C.F. OSGOOD



G.G. PARKER



D. POTTER



K.W. PUTNAM



J.A. RAMEY



G.H. RAYMOND



D.G. RHODES



J. RHODES



C.C. ROBERTS

J.E. ROGERS

D. RONDTHALER

D.H. ROSENBAUM



R.D. SCHEAR

L.P. SCHRAMM

F. SCHULZE

S. SHAPIRO

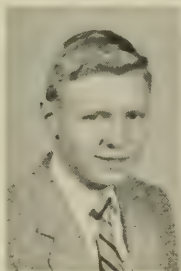


A. SHARP

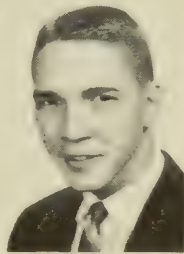
A.L. SHEITELMAN

J.E. SHEPHERD

J.Z. SMITH



SEE SUPPLEMENT



B. SPEER

L.E. STEVENSON

D.P. STITES

J.W. STONE



D. SUMMERS



S.M. TATNALL



R. TEITELBAUM



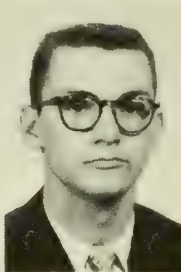
R. VAN ALPHEN



M.R. WEDNER



N. WOLDORF



A. WRIGHT



R.T. WRIGHT

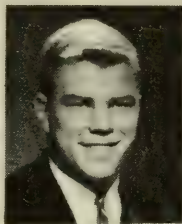
LIBRARY OF WYOMING COLLEGE Juniors



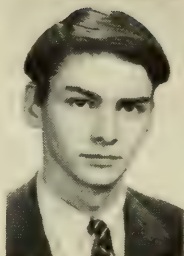
R. ABRAMS



G. W. ADAMS



J. R. ADAMS



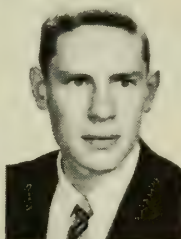
J. W. ALLEN



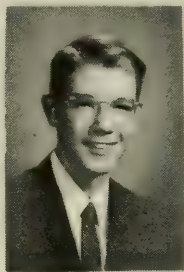
C. R. ALVING



M. B. ANDERSON



A. W. ARMSTRONG



T. T. ARNY



D. R. BAKER



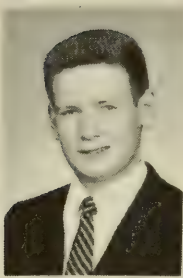
T. A. BEGGS



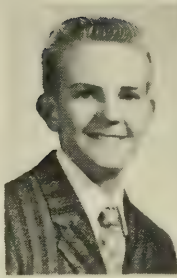
G. R. BEHLING



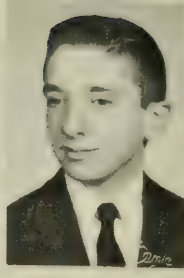
D. A. BELSLEY



R.W. BESDINE



H. BONNER



R.A. BOSHES



D.R. BOWEN



M.E. BRIOD



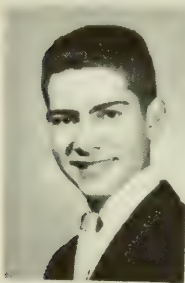
S.A. BROOKS



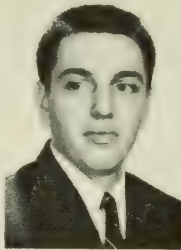
P.G. BROWN



C.G. CALLAN



W.A. CRAIG



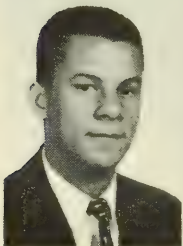
A. CUCINOTTA



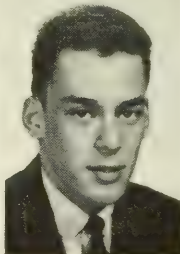
D.A. DECKER



T. DEL BELLO



W.J. DENT



C.O. DE RIS



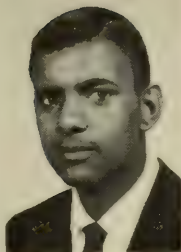
M.R. DOHAN



W.H. EDGAR



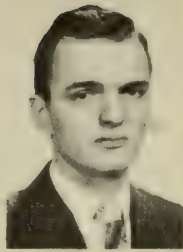
J.H. ELKINS



C. FAUNTLEROY



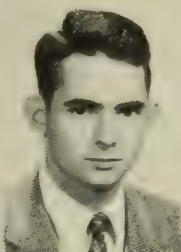
E.W. FENANDER



G.L. FERNSLER



N.H. FORSTER



P.D. FOX



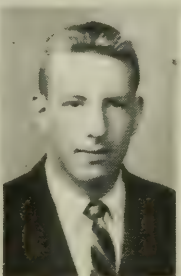
R. FREEDBERG



G.A. GIBSON



R.P. GILLMOR



O.B. GOODMAN



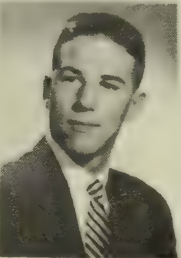
J.W. GOULD



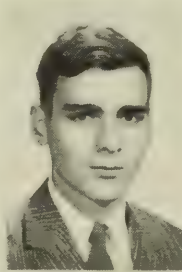
M.G. GRIFFITH



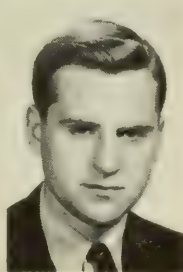
W.B. GROSE



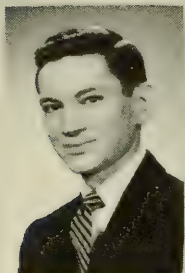
R.L. GROVES



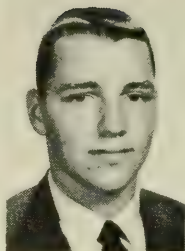
D.P. HANSON



R.B. HARVEY



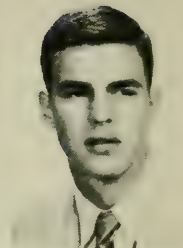
E.L. HATCH



J.D. HEILMAN



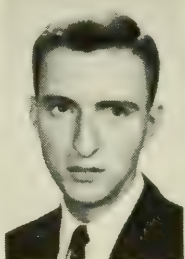
T. HENDERSON



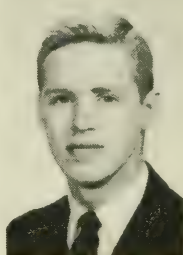
H.T. HETZEL



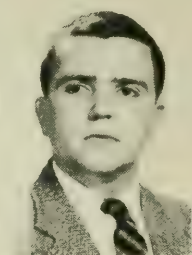
T.N. HOEN



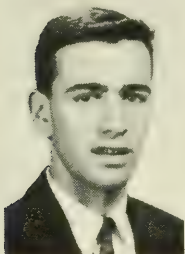
E.P. HOFFMAN



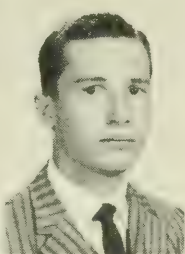
S.E. HOLSOE



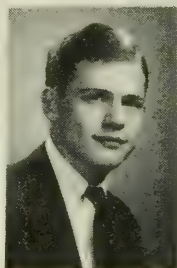
W.A. HOUSTON



R.B. JAMES



P.B. JERNQUIST



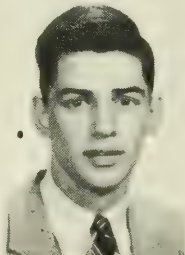
S.G. JONES



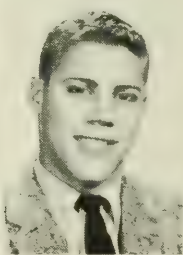
A.D. KARUSH



C.R. KELLY



C.M. KIMMICH



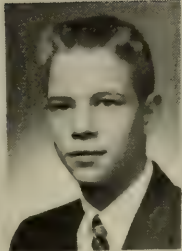
S.L. KLINEBERG



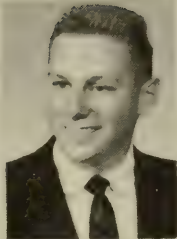
G. KOVACSICS



M.C. LEHFELDT



A.L. LINTHICUM



R.F. LOCKEY



J. MAC BRIDE



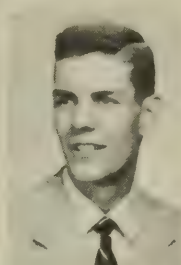
R.L. MARTIN



N.D. MATCHETT



R.G. MATHEWS



H.C. MC LEAN



E.A. MECHLING



N.M. MEYERS



R.A. ORTMAN



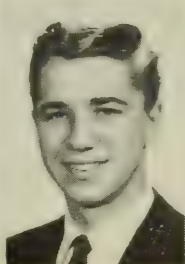
R. PARKER



A.K. PASKOW



H.P. PELOUZE



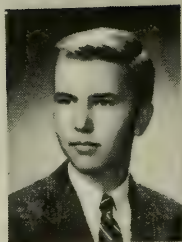
J. PENDLETON



W. PEPPER



SEE SUPPLEMENT

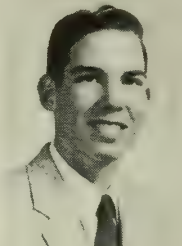
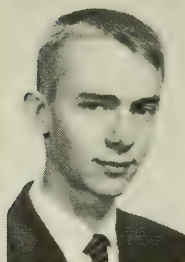


D.H. PIERSON

P. PLATENIUS

R. QUINTER

S. RAMSEYER

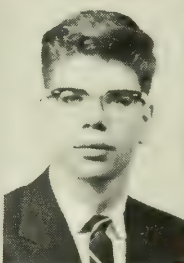


W.C. READ

E. REINER

G.G. RHOADS

E.K. RITTER

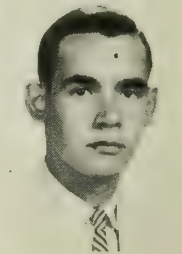
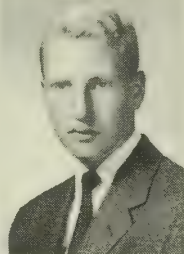
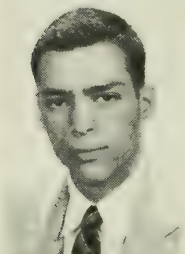


H. SCHAMBELAN

L. SCOTT

S. SHAFER

F.W. SHELTON



M. SHOWE

E. SILVERBLATT

J.B. SMILLIE

J.P. SMITH



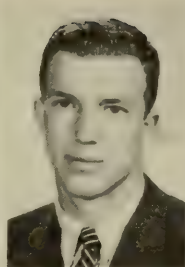
L.F. SMITH



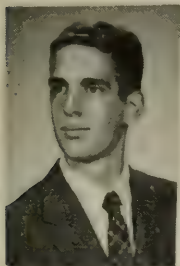
W. SPEAKMAN



G.H. STEIN



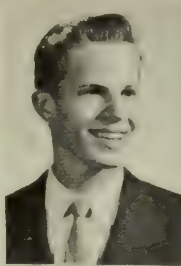
A. STIFLER



F.J. STOKES



R.W. STOWE



F. SWAN



J.K. SWIFT



H.E. TAYLOR



H.N. TAYLOR



M. THOMPSON



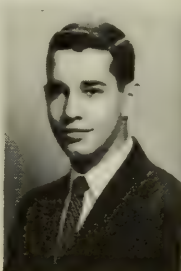
A.C. TILLIS



K. TRABERT



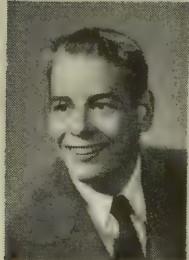
J. UNGERLEIDER



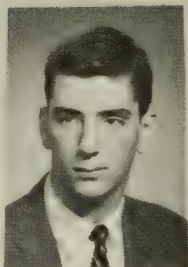
S.K. VERNON



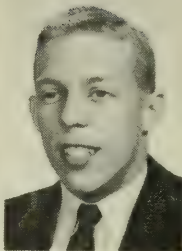
D.J. WALKER



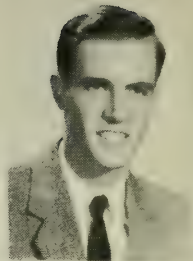
W.E. WALLING



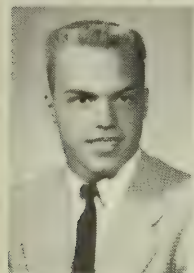
M.R. WEIL



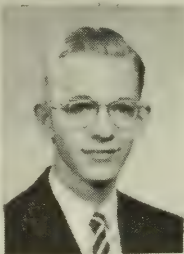
R.P. WENZEL



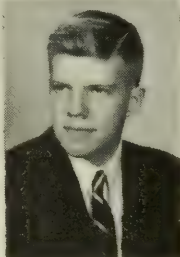
H. WILKERSON



J.W. WILLS

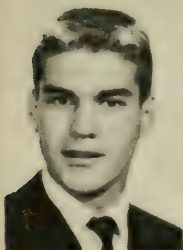


F.H. YOUNG

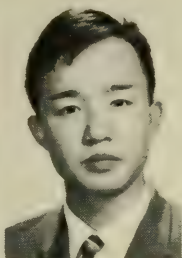


J. ZIEGENFUSS

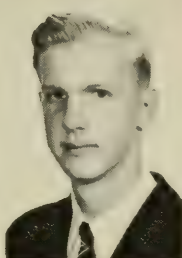
LIBRARY OF
YALE UNIVERSITY
Sophomores



D.W. ADAMS



N. AKASHI



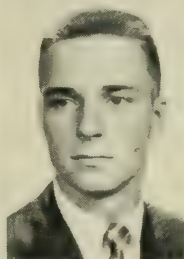
R. ALLENDOERFER



M.S. ARONOFF



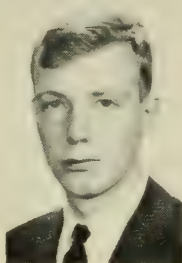
D.A. ATCHISON



J.D. BAEHR



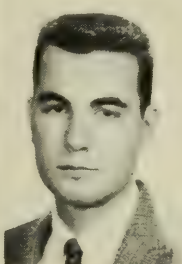
M.F. BALDWIN



G.P. BARBER



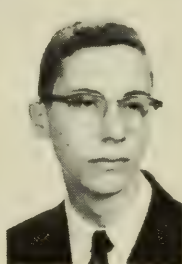
T.J. BARLOW



J.C. BERTOLET



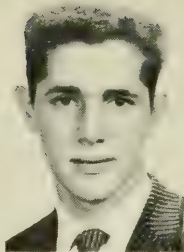
J.F. BLAIR



G.H. BLAUVELT



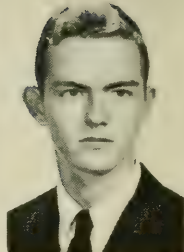
J.A.BLOCK



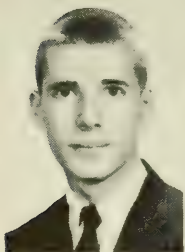
J.R.BOWER



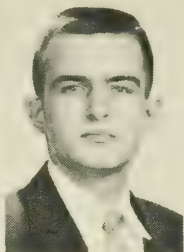
J.M.BURGIN



C.L.COCKE



J.COOPER



J.E.DAHLBERG



R.N.DE LUCA



H.C.DESHONG



W.H.ERB



J.D.ESHLEMAN



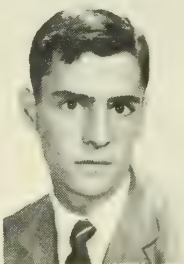
S.W.FISHER



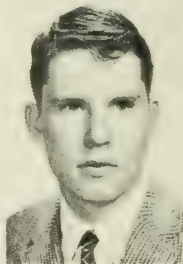
J.FLACCUS



S.FLANDERS



A.W.FOWLER



B.R.FOWLER



J.D.FOX



G.W. FREEMAN



W.B. FREILICH



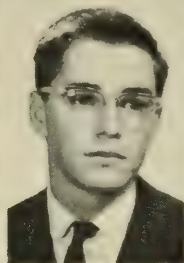
D.L. GAETJENS



V.A. GAGE



P.K. GARRETT



J.C. GEORGE



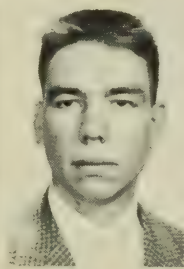
D.R. GWATKIN



M.D. HAMPDEN



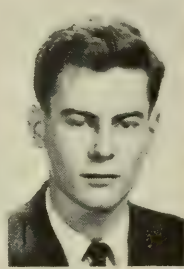
M.L. HARTMAN



T.M. HAURI



D. HEMMINGWAY



J.A. HIRST



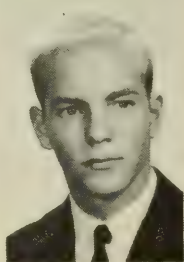
E.S. HOLLANDER



S. HOLLANDER



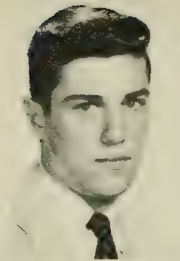
G.L. HOLTZMAN



J.B. HOOPES



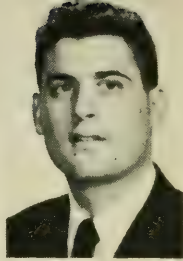
H.D. JENKINS



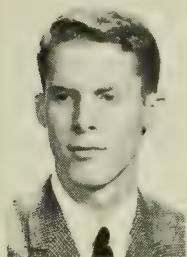
R.H. JENKS



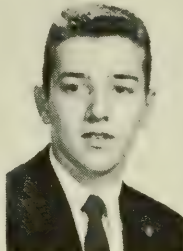
A.D. JOHNSON



P.A. KELLMAN



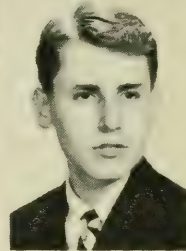
D.L. KLEIN



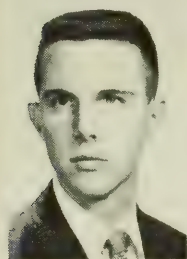
F.E. KLINGER



H.W. KNOX



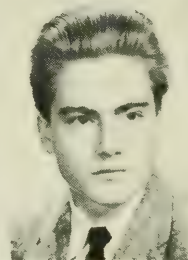
P.S. KRONE



R.W. LINVILLE



S.J. LIPPARD



R.L. LONG



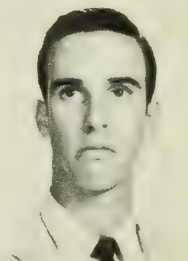
P.A. LUNDT



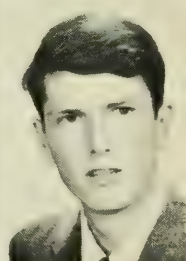
R.W. LYNN



K.A. MAC LEOD



P.K. MEARS



J.I. MEYER



J. MIDDLETON



S. H. MILLER



D. MITCHELL



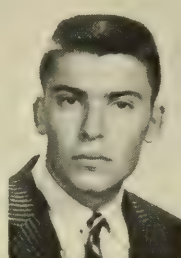
K. S. MORGAN



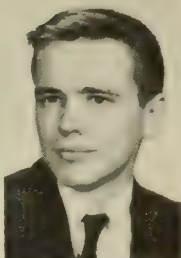
P. A. MUSGROVE



K. NAKAYAMA



E. A. NATELSON



R. B. PARKER



W. E. PARKER



R. D. PENN



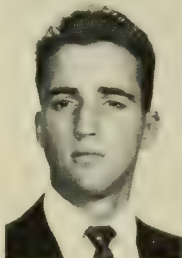
A. R. PETRASKE



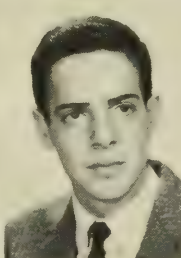
D. W. PILBROW



V. PINEDO



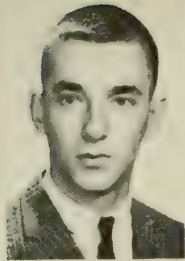
C. R. ROBINSON



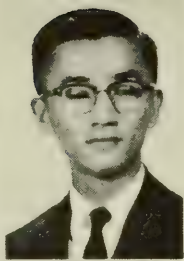
M. RODELL



F. H. ROEVER



A.C. ROGERSON



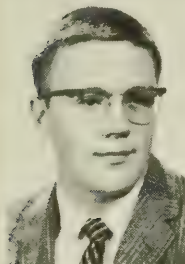
B.C. SAH



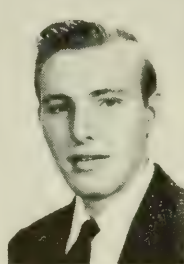
R.E. SALISBURY



F.G. SANFORD



W.D. SEDWICK



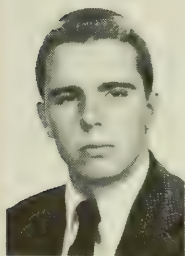
D.L. SNIDER



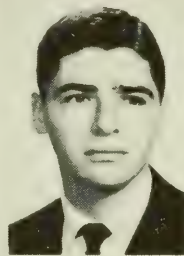
A. SPIEGEL



C.F. STAFFORD



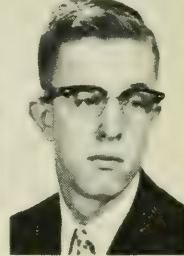
M.W. STANLEY



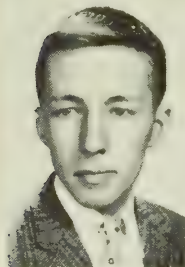
W.F. STEIGMAN



D. STERNBERGH



K.W. STEVENSON



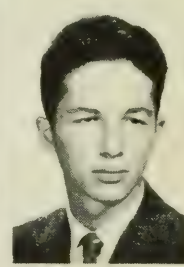
M. STRICKLER



G.M. TAI



R. TANNENBAUM



D.S. TURNER



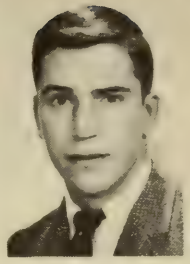
R. VAN CLEAVE



R. VAN DENBERGH



H. J. VAUX



L. A. WADDELL



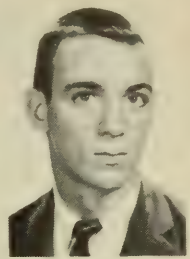
S. WAITE



R. B. WARFIELD



C. B. WATKINS



J. G. WEILAND



M. WICHURA



J. G. WILLIAMS



J. S. WILLIAMS



L. H. YEARLEY

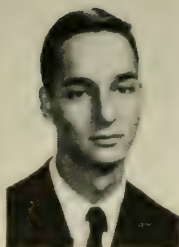


E. J. ZOBIAN

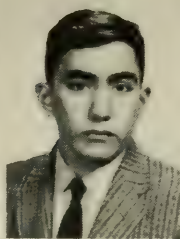
LIBRARY OF YVONNE COLLEGE Freshmen



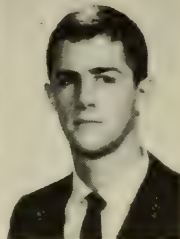
R.W. ANDREWS



L.H. AUER



B.H. BARLOW



G.T. BARNETT



D.T. BATES



W.H. BEIK



T.B. BELANGER



C. BERNHEIMER



H.G. BIBBER



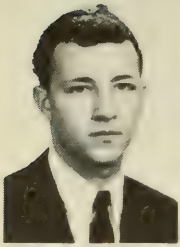
H. BLUMBERG



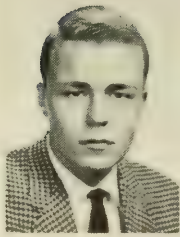
J. BLUMENTHAL



S. BOBROVNIKOFF



F.P.BOWLES



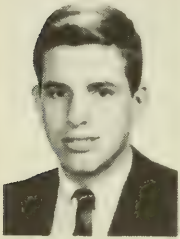
J.S.CARROLL



J.R.COLE



C.B.CONN



J.R.COOK



A.T.CRANE



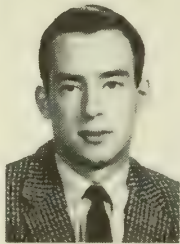
D.C.DANEKER



H.DARLINGTON



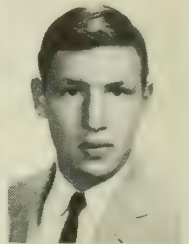
S.R.DAVID



G.R.DE RIS



W.V.DORWART



P.A.EDDY



S.J.ETTINGER



R.H.EZERMAN



R.C.FASOLDT



B.S.FOERSTER



J.E.FRANKLIN



H.T.FREUND



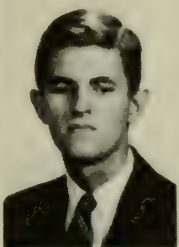
J.F.GEDDES



L.F.GHIGLIONE



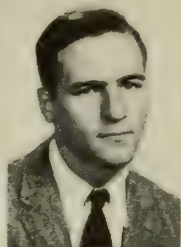
I.R.GILBERT



B.S.GILLAM



J.W.GRAMBS



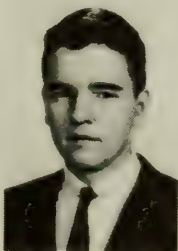
D.B.HALL



W.E.HAMMAKER



G.M.HARTER



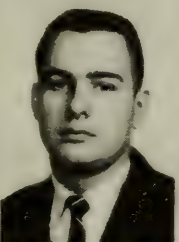
E.M.HARTMAN



R.W.HERZEL



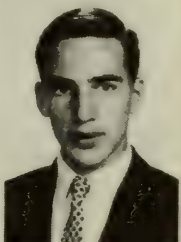
J.F.HEUSS



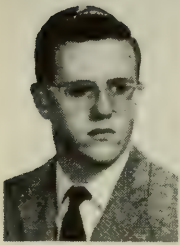
K.HILLIARD



A.HILTEBEITEL



D.HOGENAUER



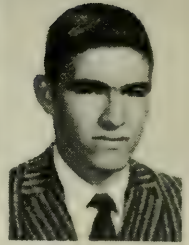
A.D. HOLE



G.W. HOUSTON



J.D. HOUSTON



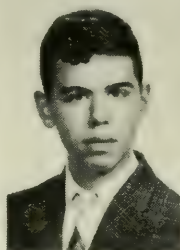
D. HUNT



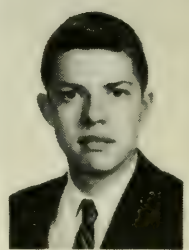
R.A. HUTTO



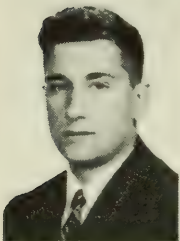
J.P. JOHNSON



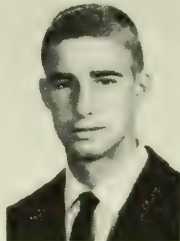
S.C. JOHNSON



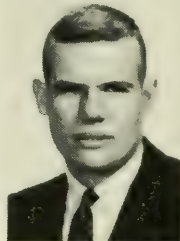
D.M. JONAS



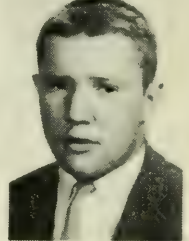
G. KANNERSTEIN



C.P. KAUFFMAN



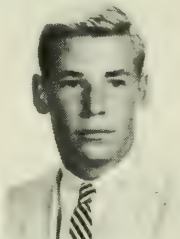
W.S. KELLEY



T. KESSINGER



R.L. KOHN



T. KRUMM



P.H. LARY



W.G. LAWN



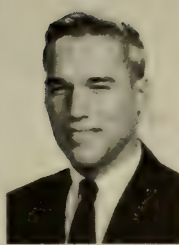
W.D. LEARNED



B.A. LEDERBERG



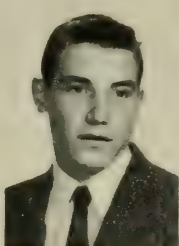
A.P. LEHNER



D.K. LEONARD



W.G. LEVI



S.L. LEVITT



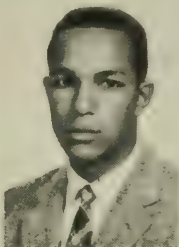
J.H. LIESVELD



K.V. LIPEZ



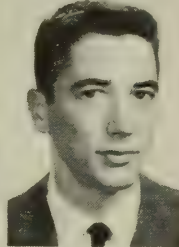
G.J. MACLAY



J.B. MAC RAE



J.D. MARGOLIS



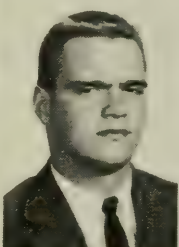
C.N. MAXFIELD



J.S. MC CONAGHY



W.H. MECHLING



W.R. MERVINE



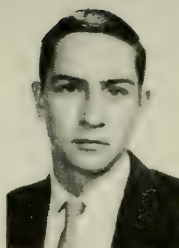
R.F. MILLER



C.W.MORRISSEY



P.R.MOYER



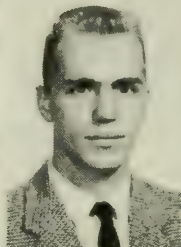
K.T.NOELL



R.W.NOLTE



H.P.NORBERG



E.T.NORTHROP



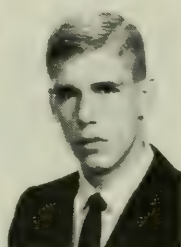
W.H.OELKERS



M.E.PENZELL



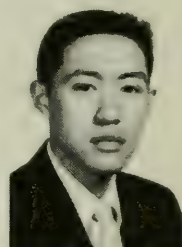
F.H.POLLARD



D.C.PORTEOUS



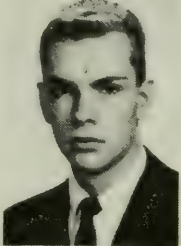
C.W.POWERS



E.S.QUILL



A.H.QUINT



F.E.RAACH



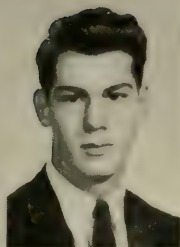
J.I.RICHARDSON



T.W.RICHARDSON



W.G. RIGGAN



J.H. ROBERTS



T.L. ROSE



R.L. RUBERG



J.D. RUFF



J.F. SCHAMBERG



J.E. SCHULZE



T.M. SCHWEITZER



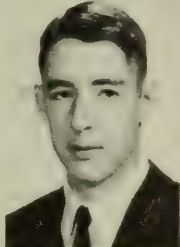
E.P. SCHWENTKER



W.B. SHERMER



A. SIEGEL



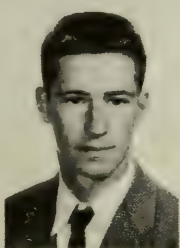
R.E. SIPE



D.C. SMILEY



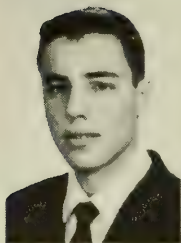
C.W. SMITH



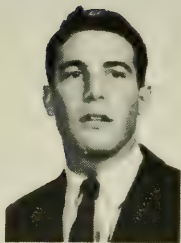
G.P. SMITH



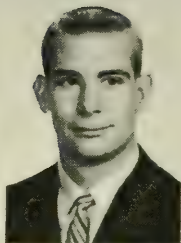
K.G. SMITH



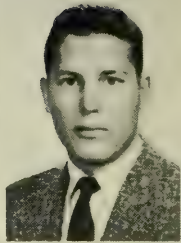
S.S. SMITH



M.H. SPRING



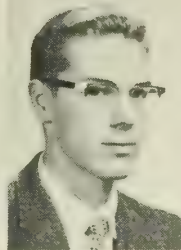
F.J. STANLEY



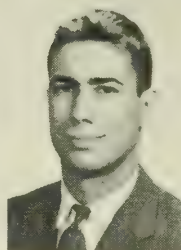
B.R. STAVIS



A.N. STONE



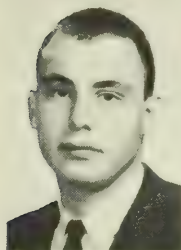
J.H. TAYLOR



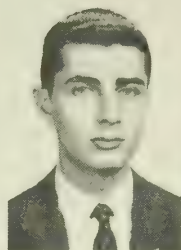
C.A. THRALL



J.H. TRANSUE



R.W. UNGER



A.F. VINCENT



A.J. WALTON



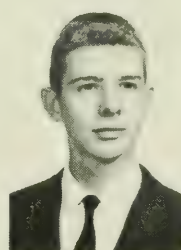
M.J. WEBER



M.W. WERNER



J.T. WERTIME



R.E. WESTBERG



R.A. WHITE



L. WILLIAMS



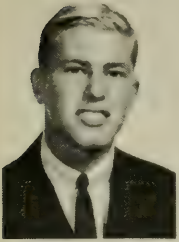
N.K. WILLIAMS



P.N. WILSON



J.C. WINTERER



F.R. WORTH

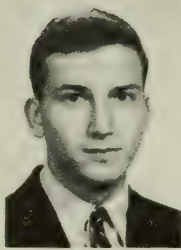


J.S. WOOD

Returnees Not Yet Assigned To Classes



A. BALLARD



R. BLUESTEIN



R.J. BROBYN



T.M. BURTON



W.M. CHACE



D. J. COOK



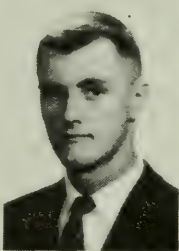
F.M. DE NIE



M.L. GARY



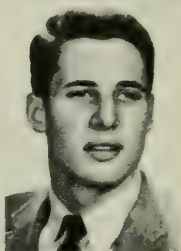
J.P. HANSON



J.S. HOWE



D.D. KNIGHT



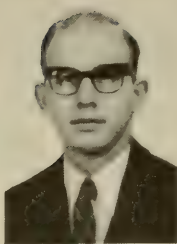
P.O. LANE



A.L.MILLER



E.V.PIERCE



P.PLATENIUS



R.M.RAUCH



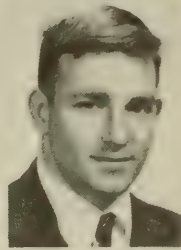
K.M.ROWER



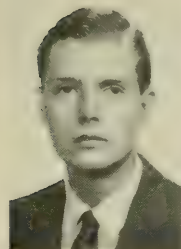
C.SHILLOCK



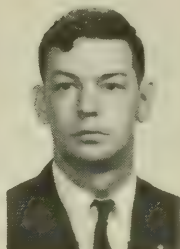
D.P.STITES



D.N.TALBOT

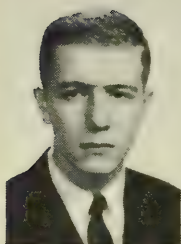


D.THREADGILL



S.B.WOOD

Special Students and Transfers



R. BEMIS



J. W. BORTON



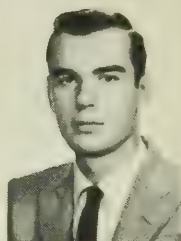
K. E. BROLIN



R. L. CAPLAN



H. CUTMANN



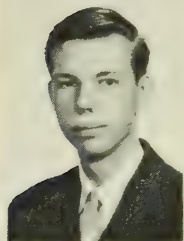
L. K. LARSON



K. MATSUURA



T. K. SHARPLESS



J. VAN DERVEEN

LIBRARY OF
VERFORD COLLEGE
VERFORD, PA

Administration



W.W. AMBLER



W.C. BAKER



H. BORTON



W.E. CADBURY



E.M. CARR



A. CASELLI



B.S. COOPER



B. KRATZ



R.D. KUBIK



W.W. LANDER



A. MAC INTOSH



M.R. NUGENT



C. PERRY

Faculty



M. J. ASENSIO



J. ASHMEAD



T. A. BENHAM



J. BERNSTEIN



J. BROOKS



R. H. BUTMAN



H. J. CADBURY



J. R. CARY



F. D. COMFORT



H. COMFORT



B. COOK



J. DAVISON



F. DE GRAAFF



P. DESJARDINS



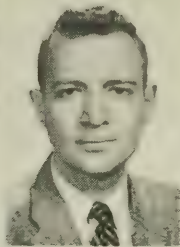
W. DOCHERTY



T. E. DRAKE



H. C. DUNATHAN



I. FINGER



M. FOSS



J. FOWLE



G. FREUND



J. GELLENS



L. GREEN



M. GUTWIRTH



A. HANSEN



E. HARPER



J. HARPER



D. HEATH



T.B. HETZEL



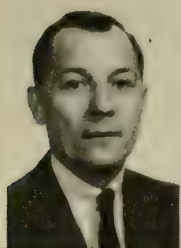
C. HOLMES



R.L. HORN



H. HUNTER



E. JANOSIK



G.A. KENNEDY



A. LEMONICK



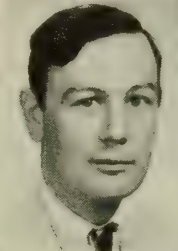
J.A. LESTER



A. LOEWY



W. LYONS



W. MAC CAFFREY



C.F. MAC KAY



J. MARIES



C.O. OAKLEY



F.H. PARKER



H.W. PFUND



E. PRUDENTE



R. E. RANDALL



H. RANKEN



W. REESE



I. REID



W. A. REITZEL



E. S. ROSE



O. RUDOLPH



M. SACKS



M. SANTER



A. SATTERTHWAITE



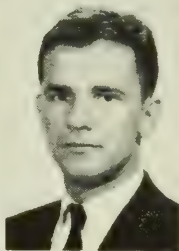
F. SELOVE



P. D. SHEATS



J. W. SMITH



L. SOLOMON



H. M. SOMERS



J. SPIELMAN



D. V. STEERE



H. M. TEAF



R. I. WALTER



R. R. WILLIAMS



N. WILSON



6

7

8

9

10



20